

SEQUENCE LISTING

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 Labandera, Marcel

<120> Manipulation of organic acid biosynthesis and secretion

<130> FREE.P-006

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 <151> 2003-04-14

<150> 2004901259
 <151> 2004-03-10

<150> PCT/AU2004/00493
 <151> 2004-04-14

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<170> PatentIn version 3.2

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Ala Glu His Glu Met Asn Cys Ser Thr Ala Ala Val Arg His Leu Ala
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His Lys Ser Lys Phe Trp Glu Pro Thr Tyr Glu Asp Ser Leu Asn Leu
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Ile Ala Arg Leu Pro Gln Val Ala Ser Tyr Val Tyr Arg Arg Ile Phe
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Lys Asp Gly Lys Thr Ile Ala Ala Asp Asn Thr Leu Asp Tyr Ala Ala
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Asn Phe Ser His Met Leu Gly Phe Asp Asp Pro Lys Met Leu Glu Leu

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<222> (703)..(703)
<223> n is a, c, g, or t

<220>
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<222> (706)..(706)
<223> n is a, c, g, or t

<400> 14
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acgtaataca gatccacgat actcgtgcc aagggagttt gcactgaagt atttaccgga 180
agaccactt ttccaactgg tctccaagtt gtacgaagtt gtgcctccta tcctcaccga 240
gttaggcaag gtaaaaaacc catgccctaa tggtgatgct cacagtggag ttttgctcaa 300
ccacttcgga ttagttgaag cacggtacta cactgtcttg ttcggcgtct caaggagcat 360
gggaattgga tctcagccca tttgggaccg tgccctcggc ctgccacttg aaagaccgaa 420
gagtgtcacc atggagtggc tggaaaacca ctgcaagaag gctgcggcct gaagctacac 480
caatgcttcg ttttacaat caggccgtct ttgatgttaa taatgactga gcataagtta 540
ggcatggtta gccttgtttt accatcttcg ttttcctggc caataactgg agcaagaggc 600
ttacagacgg tagaattttg taaccaccgn tacttgaaca ccgaatcant taaatgtcat 660
ttggcataaa gagattagga catgacacat aagttttatg tgncgntcgg 710

<210> 15
<211> 633
<212> DNA
<213> Lolium perenne

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<220>
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 <222> (86)..(86)
 <223> n is a, c, g, or t

<220>
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 <223> n is a, c, g, or t

<220>
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 <222> (427)..(427)
 <223> n is a, c, g, or t

<220>
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 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

<220>
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 <222> (572)..(573)
 <223> n is a, c, g, or t

<220>
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 <223> n is a, c, g, or t

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 ctggtctcca agttgtacga agttgtgcct cctatcctca ccgagttagg caaggtaaaa 180
 aacccatggc ctaatgttga tgctcacagt ggagttttgc tcaaccactt cggattagtt 240
 gaagcacggt actacactgt cttgttcggc gtctcaagga gcatgggaat tggatctcag 300
 ctcatTTggg accgtgccct cggcctgcc cttgaaagac cgaagagtgt caccatggag 360
 tggctgga aa accactgcaa gaaggctgcg gcctgaagct acaccaatgc ttngttttac 420
 aaatcangcc gtctttgatg ttaataatga ctgagcataa gttaggcatg ggtagccttg 480
 ttttaccatn ttcgTTTTcc tggccaataa ctggagcaag aggctcacag acggtagaat 540
 tttgtaacca ccggtacttg acaccgaatn anntaaatgg natttggcat aaagagatta 600
 ggacatgaca cataagTTTT atgtgtcgct cgg 633

<210> 16
 <211> 349
 <212> DNA
 <213> Lolium perenne

<400> 16
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 agtgtcacca tggagtggct ggaaaaccac tgcaagaagg ctgcggcctg aagctacacc 120
 aatgcttcgt ttacaaatc aggccgtctt tgatgttaat aatgactgag cataagttag 180
 gcatggtttag ccttgtttta ccattctcgt tttcctggcc aataactgga gcaagaggct 240
 cacagacggt agaattttgt aaccaccgtt acttgaacac cgaatcagtt aaatgtcatt 300
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<210> 17
 <211> 635
 <212> DNA
 <213> Lolium perenne

<220>
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 <223> n is a, c, g, or t

<220>
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 <222> (13)..(13)
 <223> n is a, c, g, or t

<220>
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 <222> (17)..(17)
 <223> n is a, c, g, or t

<220>
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 <222> (23)..(23)
 <223> n is a, c, g, or t

<220>
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 <222> (107)..(107)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (635)..(635)
 <223> n is a, c, g, or t

<400> 17
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 cttcttattt ccacccaac cgccaacat gtgtcctccc accgaanaaa cacctgctac 120
 caacggccat agcaacggca ccaacggcgc caatggctcc aaggaaggct tcacaggcgt 180
 cacgaccaga cagaaccctc accctacaca caagagccca tatgcacctg ttggcgactt 240

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tttgtcaaat gtcggccgct tcaagattat cgagagcaca ttaagagagg gcgagcaatt 300
cgccaacgcc tacttcgacc ttgaggctaa aatcaagatc gccagagctc tcgacaactt 360
tgggtgttgac tacattgaag ttaccagccc tgctgcctct gagcagtcaa gaagggactg 420
cgaagccctc tgcaagctcg gattgaaagc caagatcctt acccacgtac gatgccacat 480
ggacgatgcc agaatcgctg tcgagactgg tgttgacggc ctcgatgtcg tcattggaac 540
ctctgcgtac ctccgcgagc acagccatgg caaggacatg acatacatca aaaacacagc 600
gctggaggtg attgagtttg tcaagagcaa gggan 635

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<210> 18
<211> 211
<212> PRT
<213> Lolium perenne

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<220>
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<222> (1)..(1)
<223> Xaa can be any naturally occurring amino acid

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<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa can be any naturally occurring amino acid

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<220>
<221> misc_feature
<222> (6)..(6)
<223> Xaa can be any naturally occurring amino acid

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<220>
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<223> Xaa can be any naturally occurring amino acid

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<220>
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<222> (36)..(36)
<223> Xaa can be any naturally occurring amino acid

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<400> 18

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Xaa Arg Gly Xaa Asn Xaa Pro Xaa Phe Lys Tyr Arg Pro Ser Ala Thr
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Asn Pro Pro Thr Phe Leu Phe Pro Pro Gln Pro Pro Asn Met Cys Pro
20          25          30

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```

Pro Thr Glu Xaa Thr Pro Ala Thr Asn Gly His Ser Asn Gly Thr Asn
35          40          45

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Gly Ala Asn Gly Ser Lys Glu Gly Phe Thr Gly Val Thr Thr Arg Gln
50          55          60

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Asn Pro His Pro Thr His Lys Ser Pro Tyr Ala Pro Val Gly Asp Phe
 65 70 75 80
 Leu Ser Asn Val Gly Arg Phe Lys Ile Ile Glu Ser Thr Leu Arg Glu
 85 90 95
 Gly Glu Gln Phe Ala Asn Ala Tyr Phe Asp Leu Glu Ala Lys Ile Lys
 100 105 110
 Ile Ala Arg Ala Leu Asp Asn Phe Gly Val Asp Tyr Ile Glu Val Thr
 115 120 125
 Ser Pro Ala Ala Ser Glu Gln Ser Arg Arg Asp Cys Glu Ala Leu Cys
 130 135 140
 Lys Leu Gly Leu Lys Ala Lys Ile Leu Thr His Val Arg Cys His Met
 145 150 155 160
 Asp Asp Ala Arg Ile Ala Val Glu Thr Gly Val Asp Gly Leu Asp Val
 165 170 175
 Val Ile Gly Thr Ser Ala Tyr Leu Arg Glu His Ser His Gly Lys Asp
 180 185 190
 Met Thr Tyr Ile Lys Asn Thr Ala Leu Glu Val Ile Glu Phe Val Lys
 195 200 205
 Ser Lys Gly
 210

<210> 19
 <211> 636
 <212> DNA
 <213> Lolium perenne

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 <222> (4)..(4)
 <223> n is a, c, g, or t

<220>
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 <222> (11)..(11)
 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

<220>
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<222> (19)..(19)
<223> n is a, c, g, or t

<220>
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<222> (21)..(21)
<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<222> (50)..(50)
<223> n is a, c, g, or t

<220>
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<222> (636)..(636)
<223> n is a, c, g, or t

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caacgacctc agcgatcagg ccatcaagga ctacctgtgg tccaccctca aggctggcca 120
agtcgttccc ggttacggac acgccgttct ccgcaagacc gacccccgct acgtctccca 180
gcgcgagttc gcccagaagc accttcccga cgaccaatg ttcaagctcg tcagtcaggt 240
ctacaagatc gcccctggtg ttctcaccga gcacggcaag accaagaacc cctaccccaa 300
cgtcgacgcc cactccggtg tcctcctcca gtactacggc ctactgagc agaactacta 360
caccgttctc ttcggtgtat cccgtgcgct cggtgtcctt cccagctta tcattgaccg 420
tgccgtcggg gccccattg agaggcccaa gtctttcagc actgaggctt acgccaagtt 480

ggttggtgct aagttgtaag cgcgttactg caacgtgctc tacagccagg agaatgtgga 540
 ggaatttggt taacattcag agataccttg tcctgtgtag aattgcaatg taaggatagg 600
 gaatgggagc gttacggcgc tacatcacta catttn 636

<210> 20
 <211> 165
 <212> PRT
 <213> Lolium perenne

<220>
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 <223> Xaa can be any naturally occurring amino acid

<220>
 <221> misc_feature
 <222> (4)..(7)
 <223> Xaa can be any naturally occurring amino acid

<220>
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 <222> (9)..(10)
 <223> Xaa can be any naturally occurring amino acid

<220>
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 <222> (12)..(12)
 <223> Xaa can be any naturally occurring amino acid

<220>
 <221> misc_feature
 <222> (14)..(17)
 <223> Xaa can be any naturally occurring amino acid

<400> 20

Xaa Tyr Gly Xaa Xaa Xaa Xaa Pro Xaa Xaa Trp Xaa Pro Xaa Xaa Xaa
 1 5 10 15

Xaa Ala Ile Gly Asn Asp Leu Ser Asp Gln Ala Ile Lys Asp Tyr Leu
 20 25 30

Trp Ser Thr Leu Lys Ala Gly Gln Val Val Pro Gly Tyr Gly His Ala
 35 40 45

Val Leu Arg Lys Thr Asp Pro Arg Tyr Val Ser Gln Arg Glu Phe Ala
 50 55 60

Gln Lys His Leu Pro Asp Asp Pro Met Phe Lys Leu Val Ser Gln Val
 65 70 75 80

Tyr Lys Ile Ala Pro Gly Val Leu Thr Glu His Gly Lys Thr Lys Asn
 85 90 95

Pro Tyr Pro Asn Val Asp Ala His Ser Gly Val Leu Leu Gln Tyr Tyr
100 105 110

Gly Leu Thr Glu Gln Asn Tyr Tyr Thr Val Leu Phe Gly Val Ser Arg
115 120 125

Ala Leu Gly Val Leu Pro Gln Leu Ile Ile Asp Arg Ala Val Gly Ala
130 135 140

Pro Ile Glu Arg Pro Lys Ser Phe Ser Thr Glu Ala Tyr Ala Lys Leu
145 150 155 160

Val Gly Ala Lys Leu
165

<210> 21
<211> 696
<212> DNA
<213> Lolium perenne

<220>
<221> misc_feature
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<223> n is a, c, g, or t

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attgtctagt gaagacatca aggctctcac caagaggaca caggagggtg ggacagaagt 120
tggtgaggca aaggctggaa agggatctgc aaccttgtcc atggcgtatg ctggcgcagt 180
ttttggtgat gcatgcttga agggctctgaa cggagttcct gacattgttg aatgctccta 240
cgtgcaatca actatcacag aactgccatt ctttgcctcc aagggtgaggc tcgggaagaa 300
tggagtcgag gaagtgcttg gtttggggtga gctgtcggcc tttgagaagg aaggtttgga 360
aagtctcaag ggtgagctca agtcttcaat tgacaagggc atcgcgttcg ccaatgcgag 420
ttaattaatt ttgcagatta tagcaaacca ggtctagtta aggggtctgt ttttgacttt 480
ttgttcagtg ctttttctgc ccatcacgtg ggcattggaag atttgagctt cacaataaaa 540
atccggcggc gtaatgccac agaacattac ttgtacaaga gggaactagt tcgtgtcaag 600
ttttgaactg gtacattaaa cgaacaattg ctgatgcact ttgagaaaaa aaaattgggg 660
gtgantccat tggcctcaag ccaaaaaaaaa aaaaaa 696

<210> 22
<211> 140
<212> PRT
<213> Lolium perenne

<400> 22

Val Gly Cys Trp Tyr His His Ser Ala Leu Phe Ser Gln Ala Thr Pro
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 Ser Thr Asn Ala Leu Ser Ser Glu Asp Ile Lys Ala Leu Thr Lys Arg
 20 25 30
 Thr Gln Glu Gly Gly Thr Glu Val Val Glu Ala Lys Ala Gly Lys Gly
 35 40 45
 Ser Ala Thr Leu Ser Met Ala Tyr Ala Gly Ala Val Phe Gly Asp Ala
 50 55 60
 Cys Leu Lys Gly Leu Asn Gly Val Pro Asp Ile Val Glu Cys Ser Tyr
 65 70 75 80
 Val Gln Ser Thr Ile Thr Glu Leu Pro Phe Phe Ala Ser Lys Val Arg
 85 90 95
 Leu Gly Lys Asn Gly Val Glu Glu Val Leu Gly Leu Gly Glu Leu Ser
 100 105 110
 Ala Phe Glu Lys Glu Gly Leu Glu Ser Leu Lys Gly Glu Leu Lys Ser
 115 120 125
 Ser Ile Asp Lys Gly Ile Ala Phe Ala Asn Ala Ser
 130 135 140

<210> 23
 <211> 650
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (650)..(650)
 <223> n is a, c, g, or t

<400> 23
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 tgttgaggca aaggctggaa agggatctgc aaccttgtcc atggcgtatg ctggcgcagt 180
 ttttggtgat gcatgcttga agggctctgaa cggagttcct gacattgttg aatgctccta 240
 cgtgcaatca actatcacag aactgccatt ctttgcctcc aaggtgaggc tcggaagaa 300
 tggagtcgag gaagtgcttg gtttggttga gctgtcggcc tttgagaagg aaggtttgga 360
 aagtctcaag ggtgagctca agtcttcaat tgacaagggc atcgcgttcg ccaatgcgag 420
 ttaattaatt ttgcagatta tagcaaacca ggtctagtta aggggtctgt tgtttttgtt 480

cagtgcctttt tctgcccatac acgtgggcat ggaagatttg agcttcacaa taaaaatccg	540
gcggcgtaat gccacagaac attacttgta caagaggga ctagttcgtg tcaagttttg	600
aactggtaca ttaaacgaac aattgctgat gcactttgag aaaaaaaaaan	650

<210> 24
 <211> 649
 <212> DNA
 <213> *Lolium perenne*

<400> 24	
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ttgtctagtg aagacatcaa ggctctcacc aagaggacac aggaggggtg gacagaagtt	120
gttgaggcaa aggctggaaa gggatctgca accttgctca tggcgtatgc tggcgcagtt	180
tttggtgatg catgcttgaa gggctctgaac ggagttcctg acattggtga atgctcctac	240
gtgcaatcaa ctatcacaga actgccattc ttgacctca aggtgaggct cgggaagaat	300
ggagtcgagg aagtgccttg tttgggtgag ctgtcggcct ttgagaagga aggtttggaa	360
agtctcaagg gtgagctcaa gtcttcaatt gacaaggga tcgcgttcgc caatgagagt	420
taattaattt tgcagattat agcaaaccag gtctagttaa ggggtctggt gtttttgttc	480
agtgcctttt ctgcccatac cgtgggcatg gaagatttga gcttcacaat aaaaatccgg	540
cggcgtaatg ccacagaaca ttacttgtag aagagggaac tagttcgtgt caagttttga	600
actggtacat taaacgaaca attgctgatg cactttgaga aaaaaaaaa	649

<210> 25
 <211> 649
 <212> DNA
 <213> *Lolium perenne*

<400> 25	
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gttgaggcaa aggctggaaa gggatctgca accttgctca tggcgtatgc tggcgcagtt	180
tttggtgatg catgcttgaa gggctctgaac ggagttcctg acattggtga atgctcctac	240
gtgcaatcaa ctatcacaga actgccattc ttgacctca aggtgaggct cgggaagaat	300
ggagtcgagg aagtgccttg tttgggtgag ctgtcggcct ttgagaagga aggtttggaa	360
agtctcaagg gtgagctcaa gtcttcaatt gacaaggga tcgcgttcgc caatgagagt	420
taattaattt tgcagattat agcaaaccag gtctagttaa ggggtctggt gtttttgttc	480
agtgcctttt ctgcccatac cgtgggcatg gaagatttga gcttcacaat aaaaatccgg	540
cggcgtaatg ccacagaaca ttacttgtag aagagggaac tagttcgtgt caagttttga	600
actggtacat taaacgaaca attgctgatg cactttgaga aaaaaaaaa	649

<210> 26
 <211> 544
 <212> DNA
 <213> *Lolium perenne*

<220>
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<220>
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 <222> (475)..(475)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (479)..(480)
 <223> n is a, c, g, or t

<220>
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 <222> (502)..(502)
 <223> n is a, c, g, or t

<220>
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 <222> (508)..(508)
 <223> n is a, c, g, or t

<220>
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 <222> (522)..(522)
 <223> n is a, c, g, or t

<220>
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 <222> (526)..(526)
 <223> n is a, c, g, or t

<220>
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 <222> (529)..(530)
 <223> n is a, c, g, or t

<220>
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 <222> (534)..(534)
 <223> n is a, c, g, or t

<220>
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 <222> (537)..(537)
 <223> n is a, c, g, or t

<220>
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 <222> (543)..(544)
 <223> n is a, c, g, or t

<400> 26

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tctagtgaag acatcaaggc tctaccaag aggacacagg aggggtgggac agaagttgtt	120
gaggcaaagg ctggaaaggg atctgcaacc ttgtccatgg cgtatgctgg cgcagttttt	180
ggtgatgcat gcttgaaggg tctgaacgga gttcctgaca ttgttgaatg ctctacgtg	240
caatcaacta tcacagaact gccattcttt gcctccaagg tgaggctcgg gaagaatgga	300
gtcgaggaag tgcttggttt ggggtgagctg tcggcctttg agaaggaagg tttggaaagt	360
ctcaagggtg agctcaagtc ttcaattgac aagggcatcg cgttcgccaa tgcgagttaa	420
ttaattttgc agattatagc aaaccaggtc tagttaaggg gtctgttgnt tttgntcann	480
gctttttctg cccatcacgt gngcatgnaa gatttgagct tnacantann tatnccngcg	540
cgnn	544

<210> 27
 <211> 589
 <212> DNA
 <213> Lolium perenne

<220>
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 <223> n is a, c, g, or t

<220>
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 <222> (386)..(386)
 <223> n is a, c, g, or t

<220>
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 <222> (459)..(459)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (494)..(494)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (509)..(509)
 <223> n is a, c, g, or t

<220>
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 <222> (541)..(541)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (562)..(562)
 <223> n is a, c, g, or t

<220>
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<222> (571)..(571)
<223> n is a, c, g, or t

<220>
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<222> (574)..(574)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (580)..(580)
<223> n is a, c, g, or t

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attgttgaat gctcctatgt gcaatcaact atcacagaac tgccattctt tgcctccaag 180
gtgaggctcg ggaagaatgg agtcgaggaa gtgcttggtt tgggtgagct gtcggccttt 240
ganaaggaag gtttggaag tctcaagggt gagctcaagt cttcaattga caagggcatc 300
gcgttcgcca atgcgagttg attaaatttg cagattatag caatccaggt ctagttgagg 360
ggctctgtttt tgactttttg ttcagngctt tttctgcccc tcacgtgggc atggaagatt 420
tgagcttcac aataaaaatc cggcggcgta atgccacana acattacttg gacaagaggg 480
aactagttcg ggtnaagttt tgaactggna cattaacaa ccaattgttg tgcccccttg 540
ngaaccgccc tttgggggtg antccattgg nctnaagccn aaaaaaaaaa 589

<210> 28
<211> 413
<212> DNA
<213> Lolium perenne

<220>
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<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (5)..(5)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (12)..(13)
<223> n is a, c, g, or t

<220>
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<222> (406)..(406)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (409)..(409)

<223> n is a, c, g, or t

<400> 28
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gagaaggaag gtttggaag tctcaagggg gagctcaagt cttcaattga caagggcatc 120
gcgttcgcca atgcgagttg attaaatttg cagattatag caatccaggt ctagttgagg 180
ggtctgtttt tgactttttg ttcagtgcct tttctgcca tcacgtgggc atggaagatt 240
tgagcttcac aataaaaatc cggcggcgta atgccacaga acattacttg tacaagaggg 300
aactagttcg tgtcaagttt tgaactggta cattaaacga acaattgttg atgcactttg 360
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gaaagtctca aggggtgagnt caagtcttca attgacaagg gcatcgcggt cgccaatgcg 120
agttgattaa atttgcagat tatagcaatc caggtctagt tgaggggtct gtttttgact 180
ttttgttcag tgctttttct gcccatcacg tgggcatgga agatttgagc ttcacaataa 240
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 tggtggccat gctggtgtta ctatcctgcc acagttctca caggctactc ctgcaagtaa 180
 tgcattgtcc catgaggacc ttaaggccct caccaagagg acacaagatg gtgggacgga 240
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 ctttgtgcaa tcaaccgtaa cagagctgcc attctttgcc tccaaggtaa ggctcggcaa 420
 gaacggagtg gaggaagtga ttgggctggg cgagctgtct gccttcgaga aggaggggtct 480
 ggagagcctc aagggcgagc tgntgncctc catcgagaag ggtatcaagt tcgcgcagga 540
 gagctagtca acctgctcag attctaacac tccgcacatg aactcggtgg gatctgatga 600
 atttttggta cgactccttt cactgcccc ttctcctggg gacattgagg cgtcgngctc 660
 cacaataaaa tggcgtgnct tgttgccata ctgaactgaa cttgtaatac cagaaagagt 720
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20 25 30

Thr Gly Val Asn Val Pro Val Val Gly Gly His Ala Gly Val Thr Ile
35 40 45

Leu Pro Gln Phe Ser Gln Ala Thr Pro Ala Ser Asn Ala Leu Ser His
50 55 60

Glu Asp Leu Lys Ala Leu Thr Lys Arg Thr Gln Asp Gly Gly Thr Glu
65 70 75 80

Val Val Glu Ala Lys Ala Gly Lys Gly Ser Ala Thr Leu Ser Met Ala
85 90 95

Tyr Ala Gly Ala Val Phe Gly Asp Ala Cys Leu Lys Gly Leu Asn Gly
100 105 110

Val Pro Asp Ile Val Glu Cys Ser Phe Val Gln Ser Thr Val Thr Glu
115 120 125

Leu Pro Phe Phe Ala Ser Lys Val Arg Leu Gly Lys Asn Gly Val Glu
130 135 140

Glu Val Ile Gly Leu Gly Glu Leu Ser Ala Phe Glu Lys Glu Gly Leu
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Glu Ser Leu Lys Gly Glu Leu Xaa Xaa Ser Ile Glu Lys Gly Ile Lys
165 170 175

Phe Ala Gln Glu Ser
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ggtggccatg ctggtgttac tatcctgcc a ctgttctcac aggctactcc tgcaagtaat 180
gcattgtccc atgaggatct taaggccctc accaagagga cacaagatgg tgggacggaa 240
gttggtgaag caaaggctgg aaagggctca gcaacattgt caatggcata tgctgggtgca 300

gtatttgag atgcatgctt gaaggggctc aatggagttc ctgacattgt agagtgctcc	360
tttgtgcaat caactgtaac agagctgcca ttctttgcct ccaaggtaag gctcggcaag	420
aacggagtg aggaagtgat tgggctgggc gagctgtctg ctttcgagaa ggaggggtctg	480
gagagcctca agggcgagct gntgncctcc atcgagaagg gtatcaagtt cgcgcaggag	540
agctagtcaa cctgctcaga ttctgacact ccgtacatga actcgggtggg atctgatgaa	600
tttttggtac gactcctttc tctgcccctt tttcgtgggg acattgaggc gttgngcttc	660
acattaaaat ggcgtgnntt gttgcatact ganctgacct tntattcn	708

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ttactatcct gccacagttc tcacaggcta ctctgcaag taatgcattg tcccatgagg	180
accttaaggc cctcaccaag aggacacaag atggtgggac ggaagttggt gaagcaaagg	240
ctggaaaggg ctgagcaaca ttgtcgatgg catatgctgg tgcagttttt ggagatgcat	300
gcttgaaggg gctcaatgga gttcctgaca ttgtagagtg ctcttttggt caatcaaccg	360
taacagagct gccattcttt gcctccaagg taaggctcgg caagaacgga gtggaggaag	420
tgattgggct gggcgagctg tctgccttcg agaaggaggg tctggagagc ctcaagggcg	480
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cagattctaa cactccgcac atgaactcgg tgggatctga tgaatttttg gttcgactcc	600
tttactgcc cccttctcct ggggacattg aggcgtcgtg ctccacaata aaatggcgtg	660
tcttggtgcc atactgaact gaacttgtaa taccagaaag agtgaaacc tgtgccttat	720
gtaccacagt acggtgaacc cgaaaatcat gaaggtagca gaagattctg tggaagcttt	780
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gttaatcctc cctgctcatt caccatgagg aaattagtagt ctcaccttca cagcatacag 180
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gcgnatgcgg cagctaaatt tgcagatgct tgctngagag gattgcatgg tgatgctggg 300
atagnggant gctcttatgt ggattctcag gtgacgganc tntctttntt tgcattccaaa 360
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<400> 35

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Asp Pro Arg Asp Val Asn Val Pro Xaa Xaa Gly Gly His Ala Gly Val
20 25 30

Xaa Ile Leu Pro Leu Leu Ser Gln Val Asn Pro Pro Cys Ser Phe Thr
35 40 45

Met Arg Lys Leu Val Ser His Leu His Ser Ile Gln Asn Gly Gly Thr
50 55 60

Glu Xaa Val Glu Ala Lys Ala Gly Ala Gly Ser Xaa Thr Xaa Ser Met
65 70 75 80

Ala Xaa Ala Ala Ala Lys Phe Ala Asp Ala Cys Xaa Arg Gly Leu His
85 90 95

Gly Asp Ala Gly Ile Xaa Xaa Cys Ser Tyr Val Asp Ser Gln Val Thr
100 105 110

Xaa Xaa Ser Xaa Phe Ala Ser Lys Val Arg Leu Gly Cys Ser Gly Val
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Xaa Glu Ile Leu Pro Leu Gly Pro Leu Asn Glu
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<210> 36
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 ggcatgacca gggacgatct cttcaacatc aacgccggca tcgttaagaa cctctgcacc 480
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<400> 37

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Phe Arg Leu His Arg Ser Arg Ser His Thr Pro Pro Gln Pro Ala Thr
 20 25 30

Met Arg Pro Ser Ala Met Arg Ser Ala Ala Gln Leu Leu Arg Arg Arg
 35 40 45

Ser Tyr Ser Ser Ala Ser Gly Gln Pro Glu Arg Lys Val Ala Ile Leu
 50 55 60

Gly Ala Ala Gly Gly Ile Gly Gln Pro Leu Ala Leu Leu Met Lys Leu
 65 70 75 80
 Asn Pro Leu Val Ser Ser Leu Ser Leu Tyr Asp Ile Ala Ala Thr Pro
 85 90 95
 Gly Val Ala Ala Asp Val Ser His Ile Asn Ser Pro Ala Leu Val Lys
 100 105 110
 Gly Phe Met Gly Asp Asp Gln Leu Ala Glu Ala Leu Glu Gly Ala Asp
 115 120 125
 Leu Val Ile Ile Pro Ala Gly Val Pro Arg Lys Pro Gly Met Thr Arg
 130 135 140
 Asp Asp Leu Phe Asn Ile Asn Ala Gly Ile Val Lys Asn Leu Cys Thr
 145 150 155 160
 Ala Ile Ala Lys Tyr Cys Pro Asn Ala Leu Ile Asn Met Ile Ser Asn
 165 170 175
 Pro Val Asn Ser Thr Val Pro Ile Ala Ala Glu Val Phe Lys Lys Ala
 180 185 190
 Gly Thr Tyr Asp Glu Lys Lys Leu Phe Gly Val Thr Thr Leu Asp Val
 195 200 205
 Val Arg Ala Arg Thr Phe Tyr Ala Gly Lys Ala Asn Val Pro Val Thr
 210 215 220
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Asp Xaa

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ttgaccccag agatgtcaat gttcctgttg ttggcgggca tgccggagtt acgatattac 180

cactcctttc gcaggttagt cctccctgct cgttcacccc tgaggaaatt agttatctca 240

cctcacgcat acagaatggt gggacagaag ttgtggaggc gaaagcagga gcaggatcgg 300

caactctttc tatggcgtat gcggcagcta aatttgcaga tgcttgcttg agaggattgc 360

atggtgatgc tgggatagtg gagtgtcttt atgtggattc tcaggtgacc ggaactgcct 420

tctttgcatc caaagttcgc ctaggtcggt ctggcgtcga ggagatcttg caacttgggt 480

ccactgaacc aggttttgaa agantggac tggaanaagg cgaaanaang agctatcccg 540

agagccttcc agaaaggntg tgtcatttcg tncaacaaag tgagttacat gccatcatct 600

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tggtttgggg ctttttgcnt tnatgcaaac aggctacctt ntgggtgggg ggggtccgtt 720

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 <223> Xaa can be any naturally occurring amino acid

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 <223> Xaa can be any naturally occurring amino acid

<220>
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 <223> Xaa can be any naturally occurring amino acid

<220>
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 <222> (268)..(269)
 <223> Xaa can be any naturally occurring amino acid

<400> 39

Arg Xaa Ile Ala Ala Glu Val Phe Lys Lys Ala Gly Thr Tyr Asn Pro
 1 5 10 15

Lys Arg Leu Leu Gly Val Thr Thr Leu Asp Val Val Arg Ala Asn Thr
 20 25 30

Phe Val Gly Glu Val Leu Gly Leu Asp Pro Arg Asp Val Asn Val Pro
 35 40 45

Val Val Gly Gly His Ala Gly Val Thr Ile Leu Pro Leu Leu Ser Gln
 50 55 60

Val Ser Pro Pro Cys Ser Phe Thr Pro Glu Glu Ile Ser Tyr Leu Thr
 65 70 75 80

Ser Arg Ile Gln Asn Gly Gly Thr Glu Val Val Glu Ala Lys Ala Gly
 85 90 95

Ala Gly Ser Ala Thr Leu Ser Met Ala Tyr Ala Ala Ala Lys Phe Ala
 100 105 110

Asp Ala Cys Leu Arg Gly Leu His Gly Asp Ala Gly Ile Val Glu Cys
 115 120 125

Ser Tyr Val Asp Ser Gln Val Thr Gly Thr Ala Phe Phe Ala Ser Lys
 130 135 140
 Val Arg Leu Gly Arg Ser Gly Val Glu Glu Ile Leu Gln Leu Gly Ser
 145 150 155 160
 Thr Glu Pro Gly Phe Glu Arg Xaa Gly Leu Glu Xaa Gly Glu Xaa Xaa
 165 170 175
 Ser Tyr Pro Glu Ser Leu Pro Glu Arg Xaa Cys His Phe Xaa Gln Gln
 180 185 190
 Ser Glu Leu His Ala Ile Ile Phe Val Gly Cys Ala Ser Pro Lys Phe
 195 200 205
 Gln His Thr Val Xaa Ile Gly Ile Xaa Ile Leu Leu Val Trp Gly Leu
 210 215 220
 Leu Xaa Xaa Cys Lys Gln Ala Thr Xaa Trp Val Gly Gly Val Arg Xaa
 225 230 235 240
 Glu Lys Leu Leu Thr Phe Phe Phe Thr Val Xaa Asn Lys Xaa Xaa Glu
 245 250 255
 Lys Pro Glu Xaa Tyr Met Ile Xaa Glu Xaa Ser Xaa Xaa Lys Lys
 260 265 270

<210> 40
 <211> 798
 <212> DNA
 <213> Lolium perenne

<220>
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 <223> n is a, c, g, or t

<220>
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 <222> (13)..(13)
 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

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<223> n is a, c, g, or t

<220>
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<222> (499)..(499)
<223> n is a, c, g, or t

<220>
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<223> n is a, c, g, or t

<400> 40
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aagagctgtc ctaatgcaat agtgaatttg atcagcaacc ctgtgaactc aactgtcccc 120
attgcggcag aagntttcaa gagggctgga acttactgcc ccaaacgtct ccttgagagt 180
acaactcttg atgtagcgag ggctaacacc tttgtggctg aagtgccttg agntgatcct 240
agagaagnca gtgttccggn tggtggcggg catgcagga tcactatatt gcccctcctg 300
ncccagggtca gccccccgtg ctcattcact ccagatgaaa tcagctatatt gactaaccgc 360
atacagaatg gcggtaccga agttgttgag gcaaaggctg gagcaggctc tgcaactttg 420
tcaatggctt ttgctgctgc aaaattcgcc gatgcatgct tgcgtggaat gcgtggtgat 480
gctggcattg tggaatgtnc atacgttgca tctgaggtga cagagctgcc gttctttgca 540
acaaaagtga ggtaggtcg tggcggagct gaggagatcc tccctcttgg gccactgaat 600
gactttgaga gagctggcct ggagaaggcg aanaaggagc tcagcgagag catccagaag 660
ggtgtggcgt tcatgaacaa gtgagatcat atgaatggat ggataccccg caacctatac 720
atagatgatg caaagactaa agaaagagtg tgatatagt ctcctatata cctgtaaaat 780
ctctcctgcc tgtaagaa 798

<210> 41
<211> 220
<212> PRT
<213> Lolium perenne

<220>
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<222> (38)..(38)
<223> Xaa can be any naturally occurring amino acid

<220>
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 <222> (71)..(71)
 <223> Xaa can be any naturally occurring amino acid

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 <223> Xaa can be any naturally occurring amino acid

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 <223> Xaa can be any naturally occurring amino acid

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 <223> Xaa can be any naturally occurring amino acid

<220>
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 <223> Xaa can be any naturally occurring amino acid

<220>
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 <223> Xaa can be any naturally occurring amino acid

<400> 41

Met Leu Gly Ile Val Arg Ser Ile Cys Glu Gly Val Ala Lys Ser Cys
 1 5 10 15

Pro Asn Ala Ile Val Asn Leu Ile Ser Asn Pro Val Asn Ser Thr Val
 20 25 30

Pro Ile Ala Ala Glu Xaa Phe Lys Arg Ala Gly Thr Tyr Cys Pro Lys
 35 40 45

Arg Leu Leu Gly Val Thr Thr Leu Asp Val Ala Arg Ala Asn Thr Phe
 50 55 60

Val Ala Glu Val Leu Gly Xaa Asp Pro Arg Glu Xaa Ser Val Pro Xaa
 65 70 75 80

Val Gly Gly His Ala Gly Ile Thr Ile Leu Pro Leu Leu Xaa Gln Val
 85 90 95

Ser Pro Pro Cys Ser Phe Thr Pro Asp Glu Ile Ser Tyr Leu Thr Asn
 100 105 110

Arg Ile Gln Asn Gly Gly Thr Glu Val Val Glu Ala Lys Ala Gly Ala
 115 120 125

Gly Ser Ala Thr Leu Ser Met Ala Phe Ala Ala Ala Lys Phe Ala Asp
 130 135 140

Ala Cys Leu Arg Gly Met Arg Gly Asp Ala Gly Ile Val Glu Cys Xaa
 145 150 155 160

Tyr Val Ala Ser Glu Val Thr Glu Leu Pro Phe Phe Ala Thr Lys Val
 165 170 175

Arg Leu Gly Arg Gly Gly Ala Glu Glu Ile Leu Pro Leu Gly Pro Leu
 180 185 190

Asn Asp Phe Glu Arg Ala Gly Leu Glu Lys Ala Xaa Lys Glu Leu Ser
 195 200 205

Glu Ser Ile Gln Lys Gly Val Ala Phe Met Asn Lys
 210 215 220

<210> 42
 <211> 798
 <212> DNA
 <213> Lolium perenne

<220>
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 <223> n is a, c, g, or t

<220>
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 <223> n is a, c, g, or t

<220>
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 <223> n is a, c, g, or t

<220>
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 <223> n is a, c, g, or t

<220>
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 <223> n is a, c, g, or t

<220>
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 <223> n is a, c, g, or t

<220>
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<220>
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 <223> n is a, c, g, or t

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<220>
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 <222> (301)..(301)
 <223> n is a, c, g, or t

<220>
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 <223> n is a, c, g, or t

<400> 42
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 aagagctgtc ctaatgcaat agtgaatttg atcagcaacc ctgtgaactc aactgtcccc 120
 attgcggcan aagntttcaa gagggctgga acttactgcc ccaaactgtct ctttgagtg 180
 acaactcttg atgtagcgag ggctaacacc tttgtggctg aagtgcctgn agntgatcct 240
 agagaagnca gtgttccggn tgttggcggg catgcnggga tcactatatt gccctcctg 300
 ncccagggtca gcccccgctg ctcatcact ccagatgaaa tcagctatct gactaaccgc 360
 atacagaatg gcggtaccga agttgttgag gcaaaggctg gagcaggctc tgcaactttg 420
 tcaatggctt ttgctgctgc aaaattcgcc gatgcatgct tgcgtggaat gcgtggtgat 480
 gctggcattg tggaatgttc atacgttgca tctgaggtga cagagctgcc gttctttgca 540
 acaaaagtga ggtaggtcg tggcggagct gaggagatcc tccctcttg gccactgaat 600
 gactttgaga gagctggcct ggagaaggcg aanaaggagc tcagcgagag catccagaag 660
 ggtgtggcgt tcatgaacaa gtgagatcat atgaatggat ggataccccg caacctatac 720
 atagatgatg caaagactaa agaaagagtg tgatatagtg ctctatatata cctgtaaaat 780
 ctctcctgcc tgtaagaa 798

<210> 43
 <211> 497
 <212> DNA
 <213> Lolium perenne

<220>
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<222> (484)..(484)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (497)..(497)
<223> n is a, c, g, or t

<400> 43
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gagctgtcct aatgcaatag tgaatttgat cagcaaccct gtgaactcaa ctgtcccat 120
tgcggcagaa gttttcaaga gggctggaac ttactgcccc aaacgtctcc ttggagtgc 180
aactcttgat gtagcgagg gtaaacacctt tgtggctgaa gtgcttgagg ttgatcctag 240
agaagtcagt gttccggttg ttggcgggca tgcagggatc actatattgc ccctcctgtc 300
ccaggtcagc cccccgtgct cattcactcc agatgaaatc agctatttga ctaaccgcat 360
acagaatggc ggtaccgaag ttgttgaggc aaaggctgga gcaggctctg caactttgtc 420
aatggctttt gctgctgcaa aattcgccga tgcattgcttg cgtggaatgc gtggtgatgc 480
tgggnattgtg gaatgtn 497

<210> 44
<211> 667
<212> DNA
<213> Lolium perenne

<220>
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<222> (643)..(643)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (658)..(658)
<223> n is a, c, g, or t

<400> 44
caattgcacg ttcttgtcga cttcagcatc accctcacgc ttctcctaca caaccctcc 60
caaccgtcac tatggtcaag gctgtcgtcg cagggtgctgc tgggtggtatc ggccagcccc 120
tctctcttct actcaagacg agccccctca tcgatgagct tgccctctac gatgttgtca 180
acactcccgg tgttgccgct gatctttccc acatctcatc ccgcgctcaa atcgccggct 240
acctcccaa ggatgatggc gcaaaggctg cattcaaaga tgccgacatt atcgctcatc 300
ccgccggcat tcctcgcaag cctggcatga cccgtgatga cctcttcaac atcaacgccg 360
gaattgtcaa gggctctgatt gaggttgccg ccgaagttgc cccaaggcc ttatttctgg 420
tcattctcaa ccctgtcaac tctaccgtcc ctatctctgc cgaggctctc aaggccaagg 480
gcgtcttcaa ccctcagcgt cttttcggtg tcaccacctc cgacatcgtc cgtgccgaga 540
ctttcgtcgc cagcatcacc ggcgagaagc agccccagaa cttgaccgtc cccgtcattg 600

gcggccactc cggcgagacc atcgccccgc ttttcagcaa ggntcagccc tctgcttnca 660
 ttccccgc 667

<210> 45
 <211> 221
 <212> PRT
 <213> Lolium perenne

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 <223> Xaa can be any naturally occurring amino acid

<220>
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 <222> (219)..(219)
 <223> Xaa can be any naturally occurring amino acid

<400> 45

Ile Ala Arg Ser Cys Ser Leu Gln His His Pro His Ala Ser Pro Thr
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Gln Pro Leu Pro Thr Val Thr Met Val Lys Ala Val Val Ala Gly Ala
 20 25 30

Ala Gly Gly Ile Gly Gln Pro Leu Ser Leu Leu Leu Lys Thr Ser Pro
 35 40 45

Leu Ile Asp Glu Leu Ala Leu Tyr Asp Val Val Asn Thr Pro Gly Val
 50 55 60

Ala Ala Asp Leu Ser His Ile Ser Ser Arg Ala Gln Ile Ala Gly Tyr
 65 70 75 80

Leu Pro Lys Asp Asp Gly Ala Lys Ala Ala Phe Lys Asp Ala Asp Ile
 85 90 95

Ile Val Ile Pro Ala Gly Ile Pro Arg Lys Pro Gly Met Thr Arg Asp
 100 105 110

Asp Leu Phe Asn Ile Asn Ala Gly Ile Val Lys Gly Leu Ile Glu Val
 115 120 125

Ala Ala Glu Val Ala Pro Lys Ala Phe Ile Leu Val Ile Ser Asn Pro
 130 135 140

Val Asn Ser Thr Val Pro Ile Ser Ala Glu Val Leu Lys Ala Lys Gly
 145 150 155 160

Val Phe Asn Pro Gln Arg Leu Phe Gly Val Thr Thr Leu Asp Ile Val
165 170 175

Arg Ala Glu Thr Phe Val Ala Ser Ile Thr Gly Glu Lys Gln Pro Gln
180 185 190

Asn Leu Thr Val Pro Val Ile Gly Gly His Ser Gly Glu Thr Ile Val
195 200 205

Pro Leu Phe Ser Lys Xaa Gln Pro Ser Ala Xaa Ile Pro
210 215 220

<210> 46
<211> 1484
<212> DNA
<213> Lolium perenne

<220>
<221> misc_feature
<222> (2)..(2)
<223> n is a, c, g, or t

<400> 46
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tgtcgtcgcc tcctcccga ccactctccc catccccga ctccagaacc ggctccaatg 120
gcggcgaaagg aaccgatgcg cgtgctcgtc accggcgccg caggacaaat tggatatgct 180
cttgttccga tgattgctag gggaattatg cttggtgcgg accagcctgt tattctgcat 240
atgctggata ttccaccagc tgctgaagct cttaatggtg ttaagatgga gttggttgat 300
gccgcatttc cacttctcaa gggagttggt gcaacaactg atgttggtga ggcttgact 360
ggtgtgaatg ttgcggttat ggttggtgga ttccccagga aggagggaat ggaaaggaag 420
gatgttatgt ctaagaatgt ttcaatctac aaatctcaag catctgccct tgaagccat 480
gcagccccga attgcaaggc tctggttggt gccaatccag caaacaccaa tgctcttattc 540
ttaaaggagt ttgctccatc tattcctgag aagaacatca gttgtttgac ccgcctagac 600
cataacaggg cacttggtca gatctctgag agacttgatg tccaagttag tgatgtgaag 660
aatgttatca tctggggcaa tcactcttcc agtcagtacc ctgatgtgaa ccacgccacc 720
gtgaagactt ccagtggcga gaagcctggt cgcgaacttg ttaaagacga tgaatggcta 780
aatgcagggt tcattgccac tgtccagcag cgtggtgctg caatcatcaa agcgaggaag 840
ctctccagtg ctctctctgc tgccagctct gcttgtagacc acatccgtga ttgggttctc 900
ggaaccctg agggaaacatt tgtttccatg ggtgtgtatt ctgatggttc atacggtgtg 960
cctgctgggc ttatctactc cttcccagta acttgctgcy gtggtgaatg gacaattggt 1020
caagggctcc cgatcgacga gttctcaaga aagaagatgg atgccacagc ccaggagctc 1080

tcggaggaga aggcctctgc ctactcgtgc ctcgagtaac tgcataccag ggagcagctg 1140
ccgcctctgat gttttgaata aaaggaacat tttggctcca tgaaactcat ctccactcag 1200
aacagttgca catcgcggtg ccttttagctg gtttttccag tgtgtatgaa tgaggctttt 1260
gtagctctat tttcgctga tgatttacag gacaggatat tggcaggaag attggaacaa 1320
tttgacgtct gattaaaacc aacctcttat tattcctgtg tgtatgaatg aggcttttgt 1380
agctctatatt tcgcctgatg atttacaggc catgatattg gcaggaggat tggaacaatt 1440
tgacgcctga ttaaaaccaa cctcttatta ctaaaaaaaaa aaaa 1484

<210> 47
<211> 333
<212> PRT
<213> Lolium perenne

<400> 47

Met Ala Ala Lys Glu Pro Met Arg Val Leu Val Thr Gly Ala Ala Gly
1 5 10 15

Gln Ile Gly Tyr Ala Leu Val Pro Met Ile Ala Arg Gly Ile Met Leu
20 25 30

Gly Ala Asp Gln Pro Val Ile Leu His Met Leu Asp Ile Pro Pro Ala
35 40 45

Ala Glu Ala Leu Asn Gly Val Lys Met Glu Leu Val Asp Ala Ala Phe
50 55 60

Pro Leu Leu Lys Gly Val Val Ala Thr Thr Asp Val Val Glu Ala Cys
65 70 75 80

Thr Gly Val Asn Val Ala Val Met Val Gly Gly Phe Pro Arg Lys Glu
85 90 95

Gly Met Glu Arg Lys Asp Val Met Ser Lys Asn Val Ser Ile Tyr Lys
100 105 110

Ser Gln Ala Ser Ala Leu Glu Ala His Ala Ala Pro Asn Cys Lys Val
115 120 125

Leu Val Val Ala Asn Pro Ala Asn Thr Asn Ala Leu Ile Leu Lys Glu
130 135 140

Phe Ala Pro Ser Ile Pro Glu Lys Asn Ile Ser Cys Leu Thr Arg Leu
145 150 155 160

Asp His Asn Arg Ala Leu Gly Gln Ile Ser Glu Arg Leu Asp Val Gln
165 170 175

Val Ser Asp Val Lys Asn Val Ile Ile Trp Gly Asn His Ser Ser Ser
 180 185 190
 Gln Tyr Pro Asp Val Asn His Ala Thr Val Lys Thr Ser Ser Gly Glu
 195 200 205
 Lys Pro Val Arg Glu Leu Val Lys Asp Asp Glu Trp Leu Asn Ala Gly
 210 215 220
 Phe Ile Ala Thr Val Gln Gln Arg Gly Ala Ala Ile Ile Lys Ala Arg
 225 230 235 240
 Lys Leu Ser Ser Ala Leu Ser Ala Ala Ser Ser Ala Cys Asp His Ile
 245 250 255
 Arg Asp Trp Val Leu Gly Thr Pro Glu Gly Thr Phe Val Ser Met Gly
 260 265 270
 Val Tyr Ser Asp Gly Ser Tyr Gly Val Pro Ala Gly Leu Ile Tyr Ser
 275 280 285
 Phe Pro Val Thr Cys Cys Gly Gly Glu Trp Thr Ile Val Gln Gly Leu
 290 295 300
 Pro Ile Asp Glu Phe Ser Arg Lys Lys Met Asp Ala Thr Ala Gln Glu
 305 310 315 320
 Leu Ser Glu Glu Lys Ala Leu Ala Tyr Ser Cys Leu Glu
 325 330

<210> 48
 <211> 770
 <212> DNA
 <213> Lolium perenne

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 <223> n is a, c, g, or t

<220>
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 <222> (639)..(639)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (658)..(658)
 <223> n is a, c, g, or t

<220>

<221> misc_feature
 <222> (687)..(687)
 <223> n is a, c, g, or t

<400> 48
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 tcgtcgcctc ctcccgaacc actctcccca tccccgaact ccagaaccgg ctccaatggc 120
 ggcgaaggaa ccgatgcgcg tgctcgtcac cggcgccgca ggacaaattg gatatgctct 180
 tgttccgatg attgctaggg gaattatgct tgggtcggac cagcctgtta ttctgcatat 240
 gctggatatt ccaccagctg ctgaagctct taatggtggtt aagatggagt tggttgatgc 300
 cgcatttcca cttctcaagg gagttgttgc aacaactgat gttgttgagg cttgcactgg 360
 tgtgaatggt gcggttatgg ttggtggatt cccaggaag gagggaatgg aaaggaagga 420
 tgttatgtct aagaatgttt caatctacaa atctcaagca tctgcccttg aagcccatgc 480
 agccccgaat tgcaaggttc tggttgttgc caatccagca aacaccaatg ctcttatctt 540
 aaaggagttt gctccatcta ttcctgagaa gaacatcagt tgtttgacct gcctagacca 600
 taacagggca cttggtcaga tctctgagag acttgatgnc caagttagtg atgtgaanaa 660
 tgttatcatc tggggcaatc actcttncag tcagtaccct gatgtgaacc acgccaccgt 720
 gaagacttcc agtgccgaga agcctgttcg cgaacttggt aaagacgatg 770

<210> 49
 <211> 335
 <212> DNA
 <213> Lolium perenne

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<220>
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 <223> n is a, c, g, or t

<220>
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<220>

<221> misc_feature
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 <223> n is a, c, g, or t

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<220>
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<220>
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 <222> (274)..(274)
 <223> n is a, c, g, or t

<220>
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 <222> (282)..(282)
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<220>
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 <222> (327)..(327)
 <223> n is a, c, g, or t

<220>
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 <222> (329)..(329)
 <223> n is a, c, g, or t

<400> 49
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 cgaactccag aaccggctcc aatggcggcg aaggaaccga tgcgcgtgct cgtcaccggc 120
 gccgtaggac aaattggata tgctcttggt ccgatgattg ctaggggaat tatgcttggt 180
 gcggaccagc ctgttattct gcatatgctg gatattccac cagctgctga agctcttaat 240
 ggtgttaaga tggagttggt tgatgccgna ttncacttt tnaaggaggt tgttgcaaca 300
 actgatgttg ttgaggcttg cactggnng aatgt 335

<210> 50
 <211> 282
 <212> DNA
 <213> Lolium perenne

<220>
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<220>
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 <222> (10)..(10)
 <223> n is a, c, g, or t

<220>
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 <222> (13)..(13)
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<220>
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 <222> (20)..(20)
 <223> n is a, c, g, or t

<220>
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 <222> (24)..(24)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (257)..(258)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (260)..(260)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (267)..(267)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (271)..(272)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (277)..(277)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (282)..(282)
 <223> n is a, c, g, or t

<400> 50
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 aactccagaa ccggctccaa tggcggcgaa ggaaccgatg cgcgtgctcg tcaccggcgc 120
 cgcaggacaa attggatatg ctcttgttcc gatgattgct aggggaatta tgcttggtgc 180
 ggaccagcct gttattctgc atatgctgga tattgcacca gctgctgaag ctcttaatgg 240
 cgttaacatg gaagtgnntn ggcggcntag nnccttntcg cn 282

<210> 51
 <211> 202

<212> DNA
<213> Lolium perenne

<220>
<221> misc_feature
<222> (11)..(11)
<223> n is a, c, g, or t

<220>
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<222> (17)..(18)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (22)..(22)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (44)..(44)
<223> n is a, c, g, or t

<220>
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<222> (162)..(162)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (175)..(175)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (194)..(194)
<223> n is a, c, g, or t

<400> 51
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tccagaaccg gtcaccaatgg cggcgaagga accgatgcgc gtgctcgtca ccggcgccgc 120
aggacaaatt ggatatgctc ttgttccgat gattgctagg cnaattatgc ttgngngtgca 180
ctagcctgtt attntgcata tc 202

<210> 52
<211> 650
<212> DNA
<213> Lolium perenne

<220>
<221> misc_feature
<222> (2)..(3)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (10)..(10)
<223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (13)..(13)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (46)..(46)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (50)..(51)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (88)..(88)
 <223> n is a, c, g, or t

<400> 52
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 ccagaaccgg ctccaatggc ggcgaagnaa cccgatgcgcg tgctcgtcac cggcgccgca 120
 ggacaaattg gatatgctct tgttccgatg attgctaggg gaattatgct tgggtgtggac 180
 cagcctgtta ttctgcatat gctggatatt ccaccagctg ctgaagctct taatggtgtt 240
 aagatggagt tggttgatgc cgcatttcca cttctcaagg gagttgttgc aacaactgat 300
 gttgttgagg cttgcactgg tgtgaatgtt gcggttatgg ttggtggatt ccccaggaag 360
 gagggaatgg aaaggaagga tgttatgtct aagaatgttt caatctacaa atctcaagca 420
 tctgcccttg aagcccatgc agccccgaat tgcaagggttc tggttgttgc caatccagca 480
 aacaccaatg ctcttatctt aaaggagttt gctccatcta ttcctgagaa gaacatcagt 540
 tgtttgaccc gcctagacca taacagggca cttggtcaga tctctgagag acttgatgcc 600
 caagttagtg atgtgaagaa tgttatcatc tggggcaatc actcttccag 650

<210> 53
 <211> 660
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (2)..(3)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (5)..(5)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (10)..(10)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (37)..(37)

<223> n is a, c, g, or t

<400> 53

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agaaccggct ccaatggcgg cgaaggaacc gatgcgcgtg ctcgtcaccg gcgccgcagg	120
acaaattgga tatgctcttg ttccgatgat tgctagggga attatgcttg gtgcggacca	180
gcctgttatt ctgcatatgc tggatattcc accagctgct gaagctctta atggtgttaa	240
gatggagttg gttgatgccg catttccact tctcaaggga gttgttgcaa caactgatgt	300
tgttgaggct tgcactggtg tgaatgttgc ggttatggtt ggtggattcc ccaggaagga	360
gggaatggaa aggaaggatg ttatgtctaa gaatgtttca atctacaaat ctcaagcatc	420
tgcccttgaa gcccatgcag ccccgaattg caaggttctg gttgttgcca atccagcaaa	480
caccaatgct cttatcttaa aggagtttgc tccatctatt cctgagaaga acatcagttg	540
tttgacccgc ctagaccata acagggcact tggtcagatc tctgagagac ttgatgtcca	600
agttagtgat gtgaagaatg ttatcatctg gggcaatcac tcttccagtc agtaccctga	660

<210> 54

<211> 693

<212> DNA

<213> Lolium perenne

<220>

<221> misc_feature

<222> (24)..(24)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (443)..(443)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (524)..(524)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (533)..(533)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (569)..(569)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (591)..(591)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (600)..(600)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (614)..(614)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (660)..(660)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (675)..(676)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (680)..(680)
<223> n is a, c, g, or t

<400> 54
gcttttcctta tcccgttgct gctnctctc ccgaccactc tccccatccc cgaactccag 60
aaccggctcc aatggcggcg aaggaaccga tgcgcgtgct cgtcaccggc gccgcaggac 120
aaattggata tgctcttggt ccgatgattg ctagggggaat tatgcttggt gcggaccagc 180
ctgttattct gcatatgctg gatattccac cagctgctga agctcttaat ggtgttaaga 240
tggagttggt tgatgccgca tttccacttc tcaagggagt tgttgcaaca actgacgttg 300
ttgaggcttg cactggtgtg aatgttgcgg ttatggttgg tggattcccc aggaaggagg 360
gaatggaaag gaaggatggt atgtctaaga atgtttcaat ctacaaatct caagcatctg 420
cccttgaagc ccatgcagcc ccnaattgca aggttctggt tgttgccaat ccagcaaaca 480
ccaatgctct tatcttaaag gagtttgctc catctattcc tganaagaac atnagttggt 540
tgacccgcct agaccataac agggcactng gtcagatctc tgagagactt natgtccaan 600
ttagtgatgt gaanaatggt atcatctggg gtaatcacc ttcagtcaa taccctgatn 660
tgaaccaccc ccccnnaaan acttccaggg cga 693

<210> 55
<211> 793
<212> DNA
<213> Lolium perenne

<220>
<221> misc_feature
<222> (747)..(747)
<223> n is a, c, g, or t

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<400> 55
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cagaaccggc tccaatggcg gcgaaggaaac cgatgcgcgt gctcgtcacc ggcgccgcag 120
gacaaattgg atatgctctt gttccgatga ttgctagggg aattatgctt ggtgcggacc 180
agcctgttat tctgcatatg ctggatattc caccagctgc tgaagctctt aatggtgtta 240
agatggagtt ggttgatgcc gcatttccac ttctcaaggg agttgttgca acaactgatg 300
ttgttgaggc ttgactggt gtgaatgttg cgtttatggt tgggtgattc cccaggaagg 360
agggaaatgga aaggaaggat gttatgtcta agaatgtttc aatctacaaa tctcaagcat 420
ctgcccttga agcccatgca gccccgaatt gcaaggttct ggttggtgcc aatccagcaa 480
acaccaatgc tcttatctta aaggagtttg ctccatctat tcctgagaag aacatcagtt 540
gtttgaccgc cctagaccat aacagggcac ttggtcagat ctctgagaga cttgatgtcc 600
aagttagtga tgtgaagaat gttatcatct ggggcaatca ctctccagt cagtaccctg 660
atgtgaacca cgccaccgtg aagacttcca gtggcgagaa gcctgttcgc gaacttgta 720
aagacgatga atggctaaat gcagggntca ttgccactgt ccagcagcgt ggtgctgcaa 780
tcatcaaagc gag 793

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<210> 56
<211> 797
<212> DNA
<213> Lolium perenne

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<220>
<221> misc_feature
<222> (744)..(744)
<223> n is a, c, g, or t

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<220>
<221> misc_feature
<222> (773)..(773)
<223> n is a, c, g, or t

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<220>
<221> misc_feature
<222> (790)..(790)
<223> n is a, c, g, or t

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<400> 56
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cagaaccggc tccaatggcg gcgaaggaaac cgatgcgcgt gctcgtcacc ggcgccgcag 120
gacaaattgg atatgctctt gttccgatga ttgctagggg aattatgctt ggtgcggacc 180
agcctgttat tctgcatatg ctggatattc caccagctgc tgaagctctt aatggtgtta 240
agatggagtt ggttgatgcc gcatttccac ttctcaaggg agttgttgca acaactgatg 300
ttgttgaggc ttgactggt gtgaatgttg cgtttatggt tgggtgattc cccaggaagg 360

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agggaatgga aaggaaggat gttatgtcta agaatgtttc aatctacaaa tctcaagcat	420
ctgcccttga agcccatgca gccccgaatt gcaaggttct gggtgttgcc aatccagcaa	480
acaccaatgc tcttatctta aaggagtttg ctccatctat tcctgagaag aacatcagtt	540
gtttgacccg cctagaccat aacagggcac ttggtcagat ctctgagaga cttgatgtcc	600
aagttagtga tgtgaagaat gttatcatct ggggcaatca ctcttcagc cagtaccctg	660
atgtgaacca cgccaccgtg aagacttcca ggggcgagaa gcctgttcgc gaacttgta	720
aagacgatga atggctaaat gcanggggtca ttgccactgt ccagcagcgt ggngctgcaa	780
tcatcaaagn gaggaac	797

<210> 57
 <211> 684
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (8)..(8)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (11)..(11)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (681)..(681)
 <223> n is a, c, g, or t

<400> 57	
ntaccttinct ncccgttgct gtcgcctcct cccgaaccac tctccctcc ccgaactcca	60
gaaccggctc caatggcggc gaaggaaccg atgcgcgtgc tcgtcaccgg cgccgcagga	120
caaattggat atgctcttgt tccgatgatt gctaggggaa ttatgcttgg tgcggaccag	180
cctgttattc tgcatatgct ggatattcca ccagccgctg aagctcttaa tgggtgtaag	240
atggagttgg ttgatgccgc atttccactt ctcaagggag ttgttgcaac aactgatgtt	300
gttgaggctt gactgggtgt gaatgttgcg gttatggttg gtggattccc caggaaggag	360
ggaatgaaa ggaaggatgt tatgtctaag aatgtttcaa tctacaaatc tcaagcatct	420
gcccttgaag cccatgcagc cccgaattgc aaggttctgg ttgttgccaa tccagcaaac	480
accaatgctc ttatcttaaa ggagtttgct ccatctattc ctgagaagaa catcagttgt	540
ttgacccgcc tagaccataa cagggcactt ggtcagatct ctgagagact tgatgtccaa	600

gttagtgatg tgaagaatgt tatcatctgg ggcaatcact cttccagtca gtaccctgat 660
 gtgaaccacg ccaccgtgaa nact 684

<210> 58
 <211> 707
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (2)..(3)
 <223> n is a, c, g, or t

<400> 58
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 agaaccggct ccaatggcgg cgaaggaacc gatgcgcgtg ctcgtcaccg gcgccgcagg 120
 acaaattgga tatgctcttg ttccgatgat tgctagggga attatgcttg gtgcggacca 180
 gcctgttatt ctgcatatgc tggatattcc accagctgct gaagctctta atggtgttaa 240
 gatggagttg gttgatgccg catttccact tctcaaggga gttgttgcaa caactgatgt 300
 tgttgaggct tgcactggtg tgaatgttgc ggttatggtt ggtggattcc ccaggaagga 360
 gggaatggaa aggaaggatg ttatgtctaa gaatgtttca atctacaaat ctcaagcatc 420
 tgcccttgaa gcccatgcag ccccgaattg caaggttctg gttgttgcca atccagcaaa 480
 caccaatgct cttatcttaa aggagtttgc tccatctatt cctgagaaga acatcagttg 540
 ttgacccgc ctagaccata acagggcact tggtcagatc tctgagagac ttgatgtcca 600
 agttagtgat gtgaagaatg ttatcatctg gggcaatcac tcttccagtc agtaccctga 660
 tgtgaaccac gccaccgtga agacttccag tggcgagaag cctgttc 707

<210> 59
 <211> 801
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (685)..(685)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (799)..(799)
 <223> n is a, c, g, or t

<400> 59
 ctatccttat cccgttgtcg tcgcctcctc ccgaccactc tccccatccc cgaactccag 60
 aaccggctcc aatggcggcg aaggaaccga tgcgcgtgct cgtcaccggc gccgcaggac 120

aaattggata tgctcttggt ccgatgattg ctaggggaat tatgcttggt gcggaccagc	180
ctgttattct gcatatgctg gatattccac cagctgctga agctcttaat ggtgttaaga	240
tggagttggt tgatgccgca tttccacttc tcaagggagt tgttgcaaca actgatgttg	300
ttgaggcttg cactggtgtg aatgttgctg ttatggttg tggattcccc aggaaggagg	360
gaatggaaag gaaggatggt atgtctaaga atgtttcaat ctacaaatct caagcatctg	420
cccttgaagc ccatgcagcc ccgaattgca aggttctggt tgttgccaat ccagcaaaca	480
ccaatgctct tatcttaaag gagtttgctc catctattcc tgagaagaac atcagttggt	540
tgaccgcct agaccataac agggcacttg gtcagatctc tgagagactt gatgtccaag	600
ttagtgatgt gaagaatggt atcatctggg gcaatcactc ttccagtcag taccctgatg	660
tgaaccacgc caccgtgaag acttncagtg gcgagaagcc tgttcgcgaa cttgttaaag	720
acgatgaatg gctaaatgca gggttcattg ccactgtcca gcagcgtggt gctgcaatca	780
tcaaagcgag gaagctctnc a	801

<210> 60
 <211> 563
 <212> DNA
 <213> Lolium perenne

<400> 60	
gacccctatc ccgttgctgt cgccctctcc cgaccactct ccccatcccc gaactccaga	60
accggtcca atggcggcga aggaaccgat gcgcgtgctc gtcaccggcg ccgcaggaca	120
aattggatat gctcttggtc cgatgattgc taggggaatt atgcttggtg cggaccagcc	180
tgttattctg catatgctgg atattccacc agctgctgaa gctcttaatg gtgttaagat	240
ggagttggtt gatgccgcat ttccacttct caaggaggtt gttgcaacaa ctgatgttgt	300
tgaggcttgc actggtgtga atgttgcggt tatggttggt ggattcccca ggaaggaggg	360
aatggaaagg aaggatgtta tgtctaagaa tgtttcaatc tacaaatctc aagcatctgc	420
ccttgaagcc catgcagccc cgaattgcaa ggttctggtt gttgccaatc cagcaaacac	480
caatgctctt atcttaaagg agtttgctcc atctattcct gagaagaaca tcagttgttt	540
gacccgccta gaccataaca ggc	563

<210> 61
 <211> 692
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (2)..(3)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
 <222> (34)..(34)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (692)..(692)
 <223> n is a, c, g, or t

<400> 61
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 aaccggctcc aatggcggcg aaggaaccga tgcgcgtgct cgtcaccggc gccgcaggac 120
 aaattggata tgctcttggt ccgatgattg ctaggggaat tatgcttggt gcggaccagc 180
 ctgttattct gcatatgctg gatattccac cagctgctga agctcttaat ggtgttaaga 240
 tggagttggt tgatgccgca tttccacttc tcaagggagt tgttgcaaca actgatgttg 300
 ttgaggcttg cactggtgtg aatgttgcgg ttatggttgg tggattcccc aggaaggagg 360
 gaatggaaag gaaggatggt atgtctaaga atgtttcaat ctacaaatct caagcatctg 420
 cccttgaagc ccatgcagcc ccgaattgca aggttctggt tgttgccaat ccagcaaaca 480
 ccaatgctct tatcttaaag gagtttgctc catctattcc tgagaagaac atcagttggt 540
 tgacccgcct agaccataac agggcactcg gtcagatctc tgagagactt gatgtccaag 600
 ttagtgatgt gaagaatggt atcatctggg gtaatcactc ttccagtcag taccctgatg 660
 tgaaccacgc caccgtgaag acttccagtg gn 692

<210> 62
 <211> 764
 <212> DNA
 <213> Lolium perenne

<400> 62
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 aaccggctcc aatggcggcg aaggaaccga tgcgcgtgct cgtcaccggc gccgcaggac 120
 aaattggata tgctcttggt ccgatgattg ctaggggaat tatgcttggt gcggaccagc 180
 ctgttattct gcatatgctg gatattccac cagctgctga agctcttaat ggtgttaaga 240
 tggagttggt tgatgccgca tttccacttc tcaagggagt tgttgcaaca actgatgttg 300
 ttgaggcttg cactggtgtg aatgttgcgg ttatggttgg tggattcccc aggaaggagg 360
 gaatggaaag gaaggatggt atgtctaaga atgtttcaat ctacaaatct caagcatctg 420
 cccttgaagc ccatgcagcc ccgaattgca aggttctggt tgttgccaat ccagcaaaca 480
 ccaatgctct tatcttaaag gagttcgtc catctattcc tgagaagaac atcagttggt 540
 tgacccgcct agaccataac agggcacttg gtcagatctc tgagagactt gatgtccaag 600
 ttagtgatgt gaagaatggt atcatctggg gcaatcactc ttccagtcag taccctgatg 660
 tgaaccacgc caccgtgaag acttccagtg gcgagaagcc tgttcgcgaa cttgttaag 720

acgatgaatg gctaaatgca gggttcattg ccactgtcca gcag 764

<210> 63
<211> 769
<212> DNA
<213> Lolium perenne

<220>
<221> misc_feature
<222> (2)..(2)
<223> n is a, c, g, or t

<400> 63
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aaccggctcc aatggcggcg aaggaaccga tgcgcgtgct cgtcaccggc gccgcaggac 120
aaattggata tgctcttggt ccgatgattg ctaggggaat tatgcttggt gcggaccagc 180
ctgttattct gcatatgctg gatattccac cagctgctga agctcttaat ggtgttaaga 240
tggagttggt tgatgccgca ttccacttc tcaagggagt tgttgcaaca actgatgttg 300
ttgaggcttg cactggtgtg aatgttgcgg ttatggttg tggattcccc aggaaggagg 360
gaatggaaag gaaggatgtt atgtctaaga atgtttcaat ctacaaatct caagcatctg 420
cccttgaagc ccatgcagcc ccgaattgca aggttctggt tgttgccaat ccagcaaaca 480
ccaatgctct tatcttaaag gagtttgctc catctattcc tgagaagaac atcagttggt 540
tgaccgcct agaccataac agggcactcg gtcagatctc tgagaggctt gatgtccaag 600
ttagtgatgt gaagaatgtt atcatctggg gtaatcactc ttccagtcaa taccctgatg 660
tgaaccacgc caccgtgaag acttccagtg gcgagaagcc tgttcgcaa cttgttaaag 720
acgatgaatg gctaaatgca gggttcattg ccactgtcca gcagcgtgg 769

<210> 64
<211> 770
<212> DNA
<213> Lolium perenne

<220>
<221> misc_feature
<222> (763)..(763)
<223> n is a, c, g, or t

<400> 64
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accggctcca atggcggcga aggaaccgat gcgcgtgctc gtcaccggcg ccgcaggaca 120
aattggatat gctcttgctc cgatgattgc taggggaatt atgcttggtg cggaccagcc 180
tgttattctg catatgctgg atattccacc agctgctgaa gctcttaatg gtgttaagat 240
ggagttggtt gatgccgcat ttccacttct caagggagtt gttgcaacaa ctgatgttgt 300

tgaggcttgc actggtgtga atggttgcggt tatggttggt ggattcccca ggaaggaggg	360
aatggaaagg aaggatgtta tgtctaagaa tgtttcaatc tacaaatctc aagcatctgc	420
ccttgaagcc catgcagccc cgaattgcaa ggttctggtt gttgccaatc cagcaaacac	480
caatgctctt atcttaaagg agtttgctcc atctattcct gagaagaaca tcagttgttt	540
gacccgccta gaccataaca gggcacttgg tcagatctct gagagacttg atgtccaagt	600
tagtgatgtg aagaatgtta tcatctgggg caatcactct tccagtcagt accctgatgt	660
gaaccacgcc accgtgaaga cttccagtgg cgagaagcct gttcgcgaaac ttgttaaaga	720
cgatgaatgg ctaaatgcag ggttcattgc cactgtccag cancgtggtg	770

<210> 65
 <211> 779
 <212> DNA
 <213> *Lolium perenne*

<220>
 <221> misc_feature
 <222> (2)..(2)
 <223> n is a, c, g, or t

<400> 65 gntccctcat cccgttgtcg tcgcctcttc cgcaccactc tccccatccc cgaactccag	60
aaccggctcc aatggcggcg aaggaaccga tgcgcgtgct cgtcaccggc gccgcaggac	120
aaattggata tgctcttggt ccgatgattg ctaggggaat tatgcttggt gcggaccagc	180
ctgttattct gcatatgctg gatattccac cagctgctga agctcttaat ggtgttaaga	240
tggagttggt tgatgccgca ttccacttc tcaagggagt tgttgcgaca actgatgttg	300
ttgaggcttg cactggtgtg aatgttgcgg ttatggttgg tggattcccc aggaaggagg	360
gaatggaaag gaaggatggt atgtctaaga atgtttcaat ctacaaatct caagcatctg	420
cccttgaagc ccatgcagcc ccgaattgca aggttctggt tgttgccaat ccagtaaaca	480
ccaatgctct tatcctaaag gagtttgctc catctattcc tgagaagaac atcagttggt	540
tgacccgcct agaccataac agggcactcg gtcagatctc tgagagactt gatgtccaag	600
ttagtgatgt gaagaatggt atcatctggg gtaatcactc ttccagtcaa taccctgatg	660
tgaaccacgc caccgtgaag acttccagtg gcgagaagcc tgttcgcgaa cttgttaaag	720
acgatgaatg gctaaatgca gggttcattg ccactgtcca gcagcgtggt gctgcaatc	779

<210> 66
 <211> 788
 <212> DNA
 <213> *Lolium perenne*

<220>

<221> misc_feature
 <222> (2)..(3)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (643)..(643)
 <223> n is a, c, g, or t

<400> 66
 gnncccttcac cccgttgctg tcgcctcctc ccgaccactc tccccatccc cgaactccag 60
 aaccggctcc aatggcggcg aaggaaccga tgcgcgtgct cgtcaccggc gccgcaggac 120
 aaattggata tgctcttggt ccgatgattg ctaggggaat tatgcttggt gcggaccagc 180
 ctgttattct gcatatgctg gatattccac cagctgctga agctcttaat ggtgttaaga 240
 tggagttggt tgatgccgca ttccacttc tcaagggagt tggtgcaaca actgatgttg 300
 ttgaggcttg cactggtgtg aatgttgctg ttatggttgg tggattcccc aggaaggagg 360
 gaatggaaaag gaaggatggt atgtctaaga atgtttcaat ctacaaatct caagcatccg 420
 cccttgaagc ccatgcagcc ccgaattgca aggttctggt tggtgccaat ccagcaaaca 480
 ccaatgctct tatcttaaag gagtttgctc catctattcc tgagaagaac atcagttggt 540
 tgacccgcct agaccataac agggcacttg gtcagatctc tgagagactt gatgtccaag 600
 ttagtgatgt gaagaatggt atcatctggg gcaatcactc ttncagtcag taccctgatg 660
 tgaaccacgc caccgtgaag acttccagtg gcgagaagcc tgttcgcgaa cttgttaaag 720
 acgatgaatg gctaaatgca gggttcattg ccaactgtcca acagcgtggt gctgcaatca 780
 tcaaagcg 788

<210> 67
 <211> 794
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (8)..(8)
 <223> n is a, c, g, or t

<400> 67
 gttccttntc ccgttgctgt cgccctcctc cgaccactct ccccatcccc gaactccaga 60
 accggctcca atggcggcga aggaaccgat gcgcgtgctc gtcaccggcg ccgcaggaca 120
 aattggatat gctcttggtc cgatgattgc taggggaatt atgcttggtg cggaccagcc 180
 tgttattctg catatgctgg atattccacc agctgctgaa gctcttaatg gtgttaagat 240
 ggagttggtt gatgccgcat ttccacttct caagggaggt gttgcaacaa ctgatgttgt 300
 tgaggcttgc actggtgtga atgttgcggt tatggttggt ggattcccca ggaaggaggg 360
 aatggaaagg aaggatgtta tgtctaagaa tgtttcaatc tacaaatctc aagcatctgc 420

ccttgaagcc catgcagccc cgaattgcaa ggttctgggt gttgccaatc cagcaaacac	480
caatgctctt atcttaaagg agtttgctcc atctattcct gagaagaaca tcagttgttt	540
gaccgccta gaccataaca gggcactcgg tcagatctct gagaggcttg atgtccaagt	600
tagtgatgtg aagaatgtta tcatctgggg taatcactct tccagtcaat accctgatgt	660
gaaccacgcc accgtgaaga cttccagtgg cgagaagcct gttcgcgaaac ttgttaaaga	720
cgatgaatgg ctaaattgcag ggttcattgc cactgtccag cagcgtggtg ctgcaatcat	780
caaagcgagg aagc	794

<210> 68
 <211> 797
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (2)..(2)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (489)..(489)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (734)..(734)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (757)..(757)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (776)..(776)
 <223> n is a, c, g, or t

<400> 68	
gntccttcat cccgttgctg tcgcctcctc ccgaccactc tccccatccc cgaactccag	60
aaccggctcc aatggcggcg aaggaaccga tgcgcgtgct cgtcaccggc gccgcaggac	120
aaattggata tgctcttggt ccgatgattg ctaggggaat tatgcttggt gcggaccagc	180
ctgttattct gcatatgctg gatattccac cagctgctga agctcttaat ggtgttaaga	240
tggagttggt tgatgccgca tttccacttc tcaagggagt tgttgcaaca actgatgttg	300
ttgaggcttg cactggtgtg aatgttgctg ttatggttgg tggattcccc aggaaggagg	360
gaatggaaag gaaggatgtt atgtctaaga atgtttcaat ctacaaatct caagcatccg	420
cccttgaagc ccatgcagcc ccgaattgca aggttctggt tgttgccaat ccagcaaaca	480

ccaatgctnt tatcttaaag gagtttgctc catctattcc tgagaagaac atcagttggt	540
tgacccgcct agaccataac agggcacttg gtcagatctc tgagagactt gatgtccaag	600
ttagtgatgt gaagaatggt atcatctggg gcaatcactc ttccagtcag taccctgatg	660
tgaaccacgc caccgtgaag acttccagtg gcgagaagcc tgttcgcgaa cttgttaaag	720
acgatgaatg gctnaatgca gggttcattg ccactgncca gcagcgtggt gctgcnatca	780
tcaaagcgag gaagctt	797

<210> 69
 <211> 802
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (222)..(222)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (685)..(685)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (770)..(770)
 <223> n is a, c, g, or t

<400> 69	
gacccctcat cccgttgctg tcgcctctc cgcaccactc tccccatccc cgaactccag	60
aaccggctcc aatggcggcg aaggaaccga tgcgcgtgct cgtcaccggc gccgcaggac	120
aaattggata tgctcttggt ccgatgattg ctaggggaaat tatgcttggt gcggaccagc	180
ctgttattct gcatatgctg gatattccac cagctgctga anctcttaat ggtgttaaga	240
tggagttggt tgatgccgca tttccacttc tcaagggagt tgttgcaaca actgatgttg	300
ttgaggcttg cactggtgtg aatgttgcgg ttatggttg tggaattccc aggaaggagg	360
gaatggaaag gaaggatggt atgtctaaga atgtttcaat ctacaaatct caagcatctg	420
cccttgaagc ccatgcagcc ccgaattgca aggttctggt tgttgccaat ccagcaaaca	480
ccaatgctct tatcttaaag gagtttgctc catctattcc tgagaagaac atcagttggt	540
tgacccgcct agaccataac agggcacttg gtcagatctc tgagagactt gatgtccaag	600
ttagtgatgt gaagaatggt atcatctggg gcaatcactc ttccagtcag taccctgatg	660
tgaaccacgc caccgtgaag acttncagtg gcgagaagcc tgttcgcgaa cttgttaaag	720
acgatgaatg gctaaatgca gggttcattg ccactgtcca gcagcgtggn gctgcatcat	780
caaagcgagg aagctcttca gt	802

<210> 70
 <211> 315
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (2)..(2)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (7)..(7)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (13)..(13)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (153)..(153)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (257)..(257)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (302)..(302)
 <223> n is a, c, g, or t

<400> 70
 gnccttnatc ccnttgctgt cgctcctcc cgaccactct ccccatcccc gaactccaga 60
 accggctcca atggcggcca aggaaccgat gcgcgtgctc gtcaccggcg ccgcaggaca 120
 aattggatat gctcttgttc cgatgattgc tangggaatt atgcttggtg cggaccagcc 180
 tgttattctg catatgctgg atattccacc agctgctgaa gctcttaatg gtgttaagat 240
 ggagttggtt gatgcncat ttccacttct caaggaggtt gttgcaacaa ctgatgttgt 300
 tnaggcttgc actgg 315

<210> 71
 <211> 525
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (2)..(2)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (23)..(23)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (26)..(26)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (78)..(78)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (269)..(269)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (493)..(493)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (515)..(515)

<223> n is a, c, g, or t

<400> 71

gntccttatc ccgttgctgt cgncctctcc cgaccactct ccccatcccc gaactccaga 60

accggctcca atggcgngga aggaaccgat gcgcgtgctc gtcaccggcg ccgcaggaca 120

aattggatat gctcttggtc cgatgattgc taggggaatt atgcttggtg cggaccagcc 180

tgttattctg catatgctgg atattccacc agctgctgaa gctcttaatg gtgttaagat 240

ggagttggtt gatgccgat ttccacttnt caagggagtt gttgcaacaa ctgatgttgt 300

tgaggcttgc actggtgtga atgttgcggt tatggttggt ggattcccca ggaaggaggg 360

aatggaaagg aaggatgtta tgtctaagaa tgtttcaatc tacaatctc aagcatctgc 420

ccttgaagcc catgcagccc cgaattgcaa ggttctggtt gttgccaatc cagcaaacac 480

caatgctctt atnttaaagg agtttgctcc atctnttcct gagaa 525

<210> 72

<211> 696

<212> DNA

<213> Lolium perenne

<220>

<221> misc_feature

<222> (7)..(7)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (547)..(547)

<223> n is a, c, g, or t

<220>

<221> misc_feature
<222> (603)..(603)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (613)..(613)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (632)..(632)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (642)..(642)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (646)..(646)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (674)..(674)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (681)..(681)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (683)..(683)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (691)..(691)
<223> n is a, c, g, or t

<400> 72
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accggctcca atggcggcga aggaaccgat gcgcgtgctc gtcaccggcg ccgcaggaca 120
aattggatat gctcttggtc cgatgattgc taggggaatt atgcttggtg cggaccagcc 180
tgttattctg catatgctgg atattccacc agctgctgaa gctcttaatg gtgttaagat 240
ggagttgggt gatgccgat ttccacttct caaggaggtt gttgcaacaa ctgatgttgt 300
tgaggcttgc actggtgtga atgttgcggt tatggttggt ggattcccca ggaaggaggg 360
aatggaaagg aaggatgtta tgtctaagaa tgtttcaatc tacaaatctc aagcatctgc 420
ccttgaagcc catgcagccc cgaattgcaa ggttctgggt gttgccaatc cagcaaacac 480
caatgctctt atcttaaagg agtttgctcc atctattcct gagaagaaca tcagatgttt 540
gaccgcncta gaccataaca gggcactcgg tcagatctct gagagacttg atgtgcaagt 600

tancgatgtg aanaatgcta tcactctgggg anactactct tncagncata ccctgatgtg 660
aaccacgccca ccgngaacac ntncactgcc nacaag 696

<210> 73
<211> 646
<212> DNA
<213> Lolium perenne

<220>
<221> misc_feature
<222> (6)..(6)
<223> n is a, c, g, or t

<400> 73
tccttnatcc cgttgtcgtc gcctcctccc gaaccctctc cccatccccg aactccagaa 60
ccggctccaa tggcggcgaa ggaaccgatg cgcgtgctcg tcaccggcgc cgcaggacaa 120
attggatatg ctcttggtcc gatgattgct aggggaatta tgcttggtgc ggaccagcct 180
gttattctgc atatgctgga tattccacca gctgctgaag ctcttaatgg tgttaagatg 240
gagttggttg atgccgcatt tccacttctc aagggaagttg ttgcaacaac tgatgttggt 300
gaggcttgca ctggtgtgaa tgttgcggtt atggttggtg gattccccag gaaggagga 360
atggaaagga aggatgttat gtctaagaat gtttcaatct acaaattctca agcatctgcc 420
cttgaagccc atgcagcccc gaattgcaag gttctggttg ttgccaatcc agcaaacc 480
aatgctctta tcttaaagga gtttgctcca tctattcctg agaagaacat cagttgtttg 540
acccgcctag accataacag ggcacttggt cagatctctg agagacttga tgtccaagtt 600
agtgatgtga aaaatgttat catctggggc aatcactctt ccagtc 646

<210> 74
<211> 711
<212> DNA
<213> Lolium perenne

<220>
<221> misc_feature
<222> (8)..(8)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (642)..(642)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (679)..(679)
<223> n is a, c, g, or t

<400> 74
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accggctcca atggcggcga aggaaccgat gcgcgtgctc gtcaccggcg ccgcaggaca	120
aattggatat gctcttgttc cgatgattgc taggggaatt atgcttggtg cggaccagcc	180
tgttattctg catatgctgg atattccacc agctgctgaa gctcttaatg gtgttaagat	240
ggagttgggt gatgccgcat ttccacttct caagggagtt gttgcaacaa ctgatgttgt	300
tgaggcttgc actggtgtga atgttgcggt tatggttggt ggattcccca ggaaggagg	360
aatggaaagg aaggatgtta tgtctaagaa tgtttcaatc tacaatctc aagcatctgc	420
ccttgaagcc catgcagccc cgaattgcaa ggttctggtt gttgccaatc cagcaaacac	480
caatgctctt atcttaaagg agtttgctcc atctattcct gagaagaaca tcagttgttt	540
gaccgccta gaccataaca gggcactcgg tcagatctct gagagacttg atgtccaagt	600
tagtgatgtg aagaatgtta tcatctgggg taatcactct tncagtcaat accctgatgt	660
gaaccacgcc accgtgaana ctttcagtgg cgagaagcct gttcgcgaac t	711

<210> 75
 <211> 768
 <212> DNA
 <213> *Lolium perenne*

<220>
 <221> misc_feature
 <222> (6)..(6)
 <223> n is a, c, g, or t

<400> 75	
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cggctccaat ggcggcgaag gaaccgatgc gcgtgctcgt caccggcgcc gcaggacaaa	120
ttggatatgc tcttgttccg atgattgcta ggggaattat gcttggtgcg gaccagcctg	180
ttattctgca tatgctggat attccaccag ctgctgaagc tcttaatggt gttaagatgg	240
agttggttga tgccgcattt ccacttctca agggagttgt tgcaacaact gatgttggtt	300
aggcttgcac tgggtgtgaat gttgcggtta tggttggtgg attccccagg aaggagggaa	360
tggaaaggaa ggatgttatg tctaagaatg tttcaatcta caaatctcaa gcatctgccc	420
ttgaagccca tgcagccccg aattgcaagg ttctggttgt tgccaatcca gcaaacacca	480
atgctcttat cttaaaggag tttgctccat ctattcctga gaagaacatc agttgtttga	540
ccgcctaga ccataacagg gcacttggtc agatctctga gagacttgat gtccaagtta	600
gtgatgtgaa gaatgttatc atctggggca atcactcttc cagtcagtac cctgatgtga	660
accacgccac cgtgaagact tccagtggcg agaagcctgt tcgcgaactt gttaaagacg	720
atgaatggct aaatgcaggg ttcattgcca ctgtccagca gcgtggtg	768

<210> 76

<211> 783
 <212> DNA
 <213> Lolium perenne

<400> 76
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 cggctccaat ggcggcgaag gaaccgatgc gcgtgctcgt caccggcgcc gcaggacaaa 120
 ttggatatgc tcttgttccg atgattgcta ggggaattat gcttggtgcg gaccagcctg 180
 ttattctgca tatgctggat attccaccag ctgctgaagc tcttaatggt gttaagatgg 240
 agttggttga tgccgcattt ccacttctca agggagttgt tgcaacaact gatgttggtg 300
 aggcttgcac tgggtgtgaat gttgcgggta tggttggtgg attccccagg aaggagggaa 360
 tggaaaggaa ggatgttatg tctaagaatg tttcaatcta caaatctcaa gcatctgccc 420
 ttgaagccca tgcagccccg aattgcaagg ttctggttgt tgccaatcca gcaaacacca 480
 atgctcttat cttaaaggag tttgctccat ctattcctga gaagaacatc agttgtttga 540
 cccgcctaga ccataacagg gcacttggtc agatctctga gagacttgat gtccaagtta 600
 gtgatgtgaa gaatgttatc atctggggca atcactcttc cagtcagtac cctgatgtga 660
 accacgccac cgtgaagact tccagtggcg agaagcctgt tcgcgaactt gttaaagacg 720
 atgaatggct aaatgcaggg ttcatcgcca ctgtccagca gcgtggtgct gcaatcatca 780
 aag 783

<210> 77
 <211> 803
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (7)..(7)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (713)..(713)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (797)..(797)
 <223> n is a, c, g, or t

<400> 77
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 ccggctccaa tggcggcgaa ggaaccgatg cgcgtgctcg tcaccggcgc cgcaggacaa 120
 attggatatg ctcttggtcc gatgattgct aggggaatta tgcttggtgc ggaccagcct 180
 gttattctgc atatgctgga tattccacca gctgctgaag ctcttaatgg tgtaagatg 240

gagttggttg atgccgcatt tccacttctc aagggagttg ttgcaacaac tgatgttggt	300
gaggcttgca ctggtgtgaa tgttgcggtt atggttggtg gattccccag gaaggagggg	360
atggaaagga aggatgttat gtctaagaat gtttcaatct acaaatctca agcatctgcc	420
cttgaagccc atgcagcccc gaattgcaag gttctggttg ttgccaatcc agcaaacacc	480
aatgctctta tcttaaagga gtttgctcca tctattcctg agaagaacat cagttgtttg	540
acccgcctag accataacag ggcactcggt cagatctctg agaggcttga tgtccaagtt	600
agtgatgtga agaatgttat catctggggt aatcactctt ccagtcaata ccctgatgtg	660
aaccacgcca ccgtgaagac ttccagtggc gagaagcctg ttcgcgaact tgntaaagac	720
gatgaatggc taaatgcagg gttcattgcc actgtccagc agcgtggtgc tgcaatcatc	780
aaagcgagga agctctncag tgc	803

<210> 78
 <211> 595
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (386)..(386)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (439)..(439)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (496)..(496)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (510)..(510)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (520)..(520)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (529)..(529)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (531)..(531)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature

<222> (558)..(558)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (561)..(562)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (567)..(567)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (578)..(578)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (580)..(580)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (588)..(588)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (590)..(590)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (595)..(595)
 <223> n is a, c, g, or t

<400> 78
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 cggtccaat ggcggcgaag gaaccgatgc gcgtgctcgt caccggcgcc gcaggacaaa 120
 ttggatatgc tcttggtccg atgattgcta ggggaattat gcttggtgcg gaccagcctg 180
 ttattctgca tatgctggat attccaccag ctgctgaagc tcttaatggt gttaagatgg 240
 agttggttga tgccgcattt ccactttctca agggagtgtg tgcaacaact gatgttggtg 300
 aggcttgcac tgggtgtgaat gttgcggtta tgggttggtg attccccagg aaggagggaa 360
 tggaaaggaa ggatgttatg tctaanaatg tttcaatcta caaatcttaa gcatctgccc 420
 ttgaagccca tgcacccna attgcaaggg tctggttggt gccaatccag caaacaccaa 480
 tgcttttatt ttaaangagt ttgctccatn tattcctgan aagaacatna nttgtttgac 540
 ccgcctagac cataacangg nncctgncaa aatctttnan agacttgntn tcaan 595

<210> 79
 <211> 696
 <212> DNA
 <213> Lolium perenne

<220>
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<222> (1)..(1)
<223> n is a, c, g, or t

<220>
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<222> (11)..(11)
<223> n is a, c, g, or t

<220>
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<222> (120)..(120)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (335)..(335)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (387)..(387)
<223> n is a, c, g, or t

<220>
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<222> (482)..(482)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (603)..(603)
<223> n is a, c, g, or t

<220>
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<222> (608)..(608)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (612)..(612)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (674)..(674)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (689)..(689)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (695)..(696)
<223> n is a, c, g, or t

<400> 79
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ccggctccaa tggcggcgaa ggaaccgatg cgcgtgctcg tcaccggcgc cgcaggacan	120
attggatatg ctcttggtcc gatgattgct aggggaatta tgcttggtgc ggaccagcct	180
gttattctgc atatgctgga tattccacca gctgctgaag ctcttaatgg tgттаagatg	240
gagttggttg atgccgcatt tccacttctc aaggaggttg ttgcaacaac tgatgttggt	300
gaggcttgca ctggtgtgaa tggtgcggtt atggttggtg gattccccag gaaggagga	360
atggaaagga aggatgttat gtctaanaat gtttcaatct acaaattctca agcatctgcc	420
cttgaagccc atgcagcccc gaattgcaag gttctggttg ttgccaatcc agcaaacacc	480
antgctctta tcttaaagga gtttgctcca tctatccctg agaagaacat cagttgtttg	540
acccgcctag accataacag ggcacttggt cagatctctg agagacttga tgtccaagtt	600
agngatnga anaatgttat catctggggc aatcactctt ccagtcagta ccctgatgtg	660
aaccacgcca ccgngaagac ttccagtgnc gagann	696

<210> 80
 <211> 779
 <212> DNA
 <213> *Lolium perenne*

<220>
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 <222> (77)..(77)
 <223> n is a, c, g, or t

<400> 80	
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cggctccaac ggcggcnaag gaaccgatgc gcgtgctcgt caccggcgcc gcaggacaaa	120
ttggatatgc tcttggtccg atgattgcta ggggaattat gcttggtgcg gaccagcctg	180
ttattctgca tatgctggat attccaccag ctgctgaagc tcttaatggt gttaagatgg	240
agttggttga tgccgcattt ccacttctca agggagttgt tgcaacgact gatgttggtg	300
aggcttgcac tggtgtgaat gttgcggtta tggttggtgg attccccagg aaggagggaa	360
tgaaaggaa ggatgttatg tctaagaatg tttcaatcta caaatctcaa gcatctgccc	420
ttgaagccca tgcagccccg aattgcaagg ttctggttgt tgccaatcca gcaaacacca	480
atgctcttat cttaaaggag tttgctccat ctattcctga gaagaacatc agttgtttga	540
ccgcctaga ccataacagg gcacttggtc agatctctga gagacttgat gtccaagtta	600
gtgatgtgaa gaatgttatc atctggggca atcactcttc cagtcagtac cctgatgtga	660
accacgccac cgtgaagact tccagtggcg agaagcctgt tcgcgaactt gttaaagacg	720
atgaatggct aaatgcaggg ttcatgcca ctgtccagca gcgtggtgct gcaatcata	779

<210> 81

<211> 470
 <212> DNA
 <213> Lolium perenne

<220>
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 <222> (4)..(4)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (44)..(44)
 <223> n is a, c, g, or t

<400> 81
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 cggctccaat ggcggcgaag gaaccgatgc gcgtgctcgt caccggcgcc gcaggacaaa 120
 ttggatatgc tcttgttccg atgattgcta ggggaattat gcttggtgcg gaccagcctg 180
 ttattctgca tatgctggat attccaccag ctgctgaagc tcttaatggt gttaagatgg 240
 agttggttga tgccgcattt ccactttctca agggagtgtg tgcaacaact gatgttggtg 300
 aggcttgcac tgggtgtgaat gttgcggtta tggttggtgg attccccagg aaggagggaa 360
 tggaaaggaa ggatgttatg tctaagaatg tttcaatcta caaatctcaa gcatctgccc 420
 ttgaagccca tgcagccccg aattgcaagg ttctggttgt tgccaatcca 470

<210> 82
 <211> 599
 <212> DNA
 <213> Lolium perenne

<220>
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 <222> (3)..(3)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (6)..(6)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (10)..(10)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (44)..(44)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (580)..(580)
 <223> n is a, c, g, or t

<400> 82
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 tggatatgct cttgtttccga tgattgctag ggggaattatg cttggtgcgg accagcctgt 180
 tattctgcat atgctggata ttccaccagc tgctgaagct cttaatggtg ttaagatgga 240
 gttggttgat gccgcatttc cacttctcaa gggagttggt gcaacaactg atgtttgtga 300
 ggcttgcaact ggtgtgaatg ttgcggttat ggttggtgga ttccccagga aggagggaat 360
 ggaaaggaag gatgttatgt ctaagaatgt ttcaatctac aaatctcaag catctgccct 420
 tgaagcccat gcagccccga attgcaaggt tctggttggt gccaatccag caaacaccaa 480
 tgctcttatc ttaaaggagt ttgtccatc tattcctgag aagaacatca gttgtttgac 540
 ccgcctagac cataacaggg cacttggtca gatctctgan agacttgatg tccaagtta 599

<210> 83
 <211> 606
 <212> DNA
 <213> Lolium perenne

<220>
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 <222> (3)..(3)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (6)..(6)
 <223> n is a, c, g, or t

<220>
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 <222> (12)..(12)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (43)..(44)
 <223> n is a, c, g, or t

<220>
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 <222> (545)..(545)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (569)..(569)
 <223> n is a, c, g, or t

<400> 83
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 cggctccaat ggcggcgaag gaaccgatgc gcgtgctcgt caccggcgcc gcaggacaaa 120
 ttggatatgc tcttgttccg atgattgcta ggggaattat gcttggtgcg gaccagcctg 180

ttattctgca tatgctggat attccaccag ctgctgaagc tcttaatggt gttaagatgg	240
agttggttga tgccgcattt ccacttctca agggagttgt tgcaacaact gatgttggtg	300
aggcttgcac tgggtgtgaat gctgcggtta tggttggtgg attccccagg aaggagggaa	360
tggaaaggaa ggatgttatg tctaagaatg tttcaatcta caaatctcaa gcatctgccc	420
ttgaagccca tgcagccccc aattgcaagg ttctggttgt tgccaatcca gcaaacacca	480
atgctcttat cttaaaggag tttgctccat ctattcctga gaagaacatc agttgtttga	540
cccgnctaga ccataacagg gcaactcggn agatctctga gagacttgat gtccaagtta	600
gtgatg	606

<210> 84
 <211> 686
 <212> DNA
 <213> Lolium perenne

<220>
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 <222> (1)..(1)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (33)..(33)
 <223> n is a, c, g, or t

<400> 84	
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ggctccaatg gcggcgaagg aaccgatgcg cgtgctcgtc accggcgccg caggacaaat	120
tggatatgct cttgttccga tgattgctag gggaaattatg ctcggtgcgg accagcctgt	180
tattctgcat atgctggata ttccaccagc tgctgaagct cttaatggtg ttaagatgga	240
gttggttgat gccgcatttc cacttctcaa gggagttggt gcaacaactg atgttgttga	300
ggcttgact ggtgtgaatg ttgcggttat ggttggtgga ttccccagga aggagggaat	360
ggaaaggaag gatgttatgt ctaagaatgt ttcaatctac aaatctcaag catctgccct	420
tgaagccatg cagccccgaa ttgcaagggt ctggttggtg ccaatccagc aaacaccaat	480
gctcttatct taaaggagtt tgctccatct attcctgaga agaacatcag ttgtttgacc	540
cgcctagacc ataacagggc acttggtcag atctctgaga gacttgatgt ccaagttagt	600
gatgtgaaga atgttatcat ctggggcaat cactcttcca gtcagtaccc tgatgtgaac	660
cacgccaccg tgaagacttt cagtgg	686

<210> 85
 <211> 341
 <212> DNA
 <213> Lolium perenne

<220>
<221> misc_feature
<222> (9)..(9)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (17)..(17)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (22)..(22)
<223> n is a, c, g, or t

<220>
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<222> (98)..(98)
<223> n is a, c, g, or t

<220>
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<222> (150)..(150)
<223> n is a, c, g, or t

<220>
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<222> (175)..(175)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (276)..(276)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (279)..(279)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (297)..(297)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (305)..(305)
<223> n is a, c, g, or t

<400> 85
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ggctccaatg gcggcgaagg aaccgatgcg cgtgctcntc accggcgccg caggacaaat 120
tg gatatgct cttgttccga tgattgctan gggaattatg cttggtgcmg accancctgt 180
tattctgcat atgctggata ttccaccagc tgctgaagct cttaatggtg ttaagatgga 240
gttggttgat gccgcatttc cacttctcaa gggagntgnt gcaacaactg atgttgntga 300
ggctngcact ggtgtgaatg ttgcggttat ggatgggtga t 341

<210> 86
<211> 349
<212> DNA
<213> Lolium perenne

<220>
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<222> (245)..(245)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (265)..(265)
<223> n is a, c, g, or t

<220>
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<222> (278)..(278)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (294)..(294)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (300)..(300)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (312)..(312)
<223> n is a, c, g, or t

<220>
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<222> (326)..(328)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (331)..(331)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (333)..(334)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (340)..(340)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (345)..(345)
<223> n is a, c, g, or t

<220>

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<221> misc_feature
<222> (348)..(349)
<223> n is a, c, g, or t

<400> 86
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gctccaatgg cggcgaagga accgatgcgc gtgctcgtca ccggcgccgc aggacaaatt      120
ggatatgctc ttgttccgat gattgctagg ggaattatgc ttggtgcgga ccagcctgtt      180
attctgcata tgcaggatat tccaccagct gctgaagctc ttaatggtgt taagatggag      240
ttggnatgatg ccgcatttcc acttntcaag ggagttgntg caacaactga tgtngttgan      300
gcttgcactg gngtgaatgt tgcggnntg ncnngccan gtaanatnn                    349

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<210> 87
<211> 605
<212> DNA
<213> Lolium perenne

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<220>
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<222> (1)..(1)
<223> n is a, c, g, or t

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<220>
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<222> (32)..(32)
<223> n is a, c, g, or t

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<220>
<221> misc_feature
<222> (499)..(499)
<223> n is a, c, g, or t

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<220>
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<222> (522)..(522)
<223> n is a, c, g, or t

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<220>
<221> misc_feature
<222> (531)..(531)
<223> n is a, c, g, or t

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<220>
<221> misc_feature
<222> (559)..(559)
<223> n is a, c, g, or t

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<220>
<221> misc_feature
<222> (567)..(567)
<223> n is a, c, g, or t

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<220>
<221> misc_feature
<222> (572)..(572)
<223> n is a, c, g, or t

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<220>
 <221> misc_feature
 <222> (584)..(584)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (596)..(596)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (598)..(598)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (600)..(600)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (602)..(602)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (605)..(605)
 <223> n is a, c, g, or t

<400> 87
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 gctccaatgg cggcgaagga accgatgcgc gtgctcgtca ccggcgccgc aggacaaatt 120
 ggatatgctc ttgttccgat gattgctagg ggaattatgc ttggtgcgga ccagcccgtt 180
 attctgcata tgctggatat tccaccagct gctgaagctc ttaatggtgt taagatggag 240
 ttggttgatg ccgcatttcc acttctcaag ggagttggtg caacaactga tgttggtgag 300
 gcttgactg gtgtgaatgt tgcggttatg gttggtggat tccccaggaa ggaggggaatg 360
 gaaaggaagg atgttatgtc taagaatggt tcaatctaca aatctcaagc atctgccctt 420
 gaagcccatg cagccccgaa ttgcaagggt ctggttggtg ccaatccagc aaacaccaat 480
 gctcttatct taaaggagnt tgctccatct attcctgaga anaacatcag ntgtttgacc 540
 cgcctagacc ataacaggnc actcggncag anctctgaga gacntgatgc ccaagntngn 600
 gntgn 605

<210> 88
 <211> 685
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> n is a, c, g, or t

<400> 88
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ctccaatggc ggcgaaggaa ccgatgcgcg tgcctcgtcac cggcgccgca ggacaaattg 120
gatatgctct tgttccgatg attgctaggg gaattatgct tgggtcggac cagcctgtta 180
ttctgcatat gctggatatt ccaccagctg ctgaagctct taatggtgtt aagatggagt 240
tggttgatgc cgcattttcca cttctcaagg gagttgttgc aacaactgat gttgttgagg 300
cttgcaactgg tgtgaatgtt gcggttatgg ttggtggatt ccccaggaag gagggaatgg 360
aaaggaagga tgttatgtct aagaatgttt caatctacaa atctcaagca tctgcccttg 420
aagcccatgc agccccgaat tgcaagggtc tggttgttgc caatccagca aacaccaatg 480
ctcttatctt aaaggagttt gctccatcta ttcttgagaa gaacatcagt tgtttgaccc 540
gcctagacca taacagggca cttggtcaga tctctgagag acttgatgtc caagttagt 600
atgtgaagaa tgttatcatc tgggcaaatc actcttccag tcagtaccct gatgtgaacc 660
acgccaccgt gaagacttcc agtgg 685

<210> 89
<211> 763
<212> DNA
<213> Lolium perenne

<220>
<221> misc_feature
<222> (4)..(4)
<223> n is a, c, g, or t

<400> 89
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gctccaatgg cggcgaaggaa accgatgcgc gtgctcgtca cggcgccgc aggacaaatt 120
ggatatgtc ttgttccgat gattgctagg ggaattatgc ttggtcggga ccagcctgtt 180
attctgcata tgctggatat tccaccagct gctgaagctc ttaatggtgt taagatggag 240
ttggttgatg ccgcattttcc acttctcaag ggagttgttg caacaactga tgttggttag 300
gcttgcaactg gtgtgaatgt tgcggttatg gttggtggat tccccaggaa ggaggggaatg 360
gaaaggaagg atgttatgtc taagaatgtt tcaatctaca aatctcaagc atctgccctt 420
gaagcccatg cagccccgaa ttgcaagggt ctggttggtg ccaatccagc aaacaccaat 480
gctcttatct taaaggagtt tgctccatct attcctgaga agaacatcag ttgtttgacc 540
cgcctagacc ataacagggc acttggtcag atctctgaga gacttgatgt ccaagttagt 600
gatgtgaaga atgttatcat ctggggcaat cactcttcca gtcagtaccc tgatgtgaac 660
cacgccaccg tgaagacttc cagtggcgag aagcctgttc gcgaacttgt taaagacgat 720
gaatggctaa atgcagggtt cattgccact gtccagcagc gtg 763

<210> 90
 <211> 790
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (3)..(3)
 <223> n is a, c, g, or t

<400> 90
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 ctccaatggc ggcgaaggaa ccgatgcgcg tgctcgtcac cggcgccgca ggacaaattg 120
 gatatgctct tgttccgatg attgctaggg gaattatgct tgggtcggac cagcctgtta 180
 ttctgcatat gctggatatt ccaccagctg ctgaagctct taatggtggt aagatggagt 240
 tggttgatgc cgcatttcca cttctcaagg gagttgttgc aacaactgat gttgttgagg 300
 cttgcactgg tgtgaatggt gcggttatgg ttggtggatt ccccaggaag gagggaaatg 360
 aaaggaagga tgttatgtct aagaatgttt caatctacaa atctcaagca tctgcccctg 420
 aagcccatgc agccccgaat tgcaagggtt tggttgttgc caatccagca aacaccaatg 480
 ctcttatctt aaaggagttt gctccatcta ttcctgagaa gaacatcagt tgtttgacct 540
 gcctagacca taacagggca cttggtcaga tctctgagag acttgatgtc caagttagtg 600
 atgtgaagaa tgttatcatc tggggcaatc actcttcag tcagtaccct gatgtgaacc 660
 acgccaccgt gaagacttcc agtggcgaga agcctgttcg cgaacttggt aaagacgatg 720
 aatggctaaa tgcagggttc attgccactg tccagcagcg tgggtgctgca atcatcaaag 780
 cgaggaagct 790

<210> 91
 <211> 690
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (678)..(678)
 <223> n is a, c, g, or t

<400> 91
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 tccaatggcg gcgaaggaa c gatgcgcgt gctcgtcacc ggcgccgcag gacaaattgg 120
 atatgctctt gttccgatga ttgctagggg aattatgctt ggtgcggacc agcctgttat 180
 tctgcatatg ctggatattc caccagctgc tgaagctctt aatggtgtta agatggagtt 240
 ggttgatgcc gcatttccac ttctcaaggg agttgttgca acaactgatg ttgttgaggc 300

ttgcactggt gtgaatgttg cggttatggt tgggtggattc cccaggaagg aggggaatgga	360
aaggaaggat gttatgtcta agaatgtttc aatctacaaa tctcaagcat ctgcccttga	420
agcccatgca gccccgaatt gcaaggttct gggtgttgcc aatccagcaa acaccaatgc	480
tcttatctta aaggagtttg ctccatctat tcctgagaag aacatcagtt gtttgacccg	540
cctagaccat aacagggcac tcggtcagat ctctgagaga cttgatgtcc aagttagtga	600
tgtgaagaat gttatcatct ggggtaatca ctcttcagat caataccctg atgtgaacca	660
cgccaccgtg aagacttnca gtggcgagaa	690

<210> 92
 <211> 700
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (679)..(679)
 <223> n is a, c, g, or t

<400> 92	
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ctccaatggc ggcgaaggaa ccgatgcgcg tgctcgtcac cggcgccgca ggacaaattg	120
gatatgctct tgttccgatg attgctaggg gaattatgct tgggtcggac cagcctgtta	180
ttctgcatat gctggatatt ccaccagctg ctgaagctct taatggtgtt aagatggagt	240
tggttgatgc cgcatttcca cttctcaagg gagttgttgc aacaactgat gttgttgagg	300
cttgactggt tgtgaatgtt gcggttatgg ttgggtggatt ccccaggaag gaggggaatgg	360
aaaggaagga tgttatgtct aagaatgttt caatctacaa atctcaagca tctgcccttg	420
aagcccatgc agccccgaat tgcaagggtc tgggtgttgc caatccagca aacaccaatg	480
ctcttatctt aaaggagttt gctccatcta ttctgagaa gaacatcagt tgtttgaccc	540
gcctagacca taacagggca ctcggtcaga tctctgagag acttgatgtc caagttagtg	600
atgtgaagaa tgttatcatc tggggtaatc actcttcag tcaataccct gatgtgaacc	660
acgccaccgt gaagacttnc agtggcgaga agcctgttcg	700

<210> 93
 <211> 679
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (515)..(515)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (524)..(524)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (526)..(526)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (571)..(571)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (575)..(575)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (596)..(596)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (617)..(617)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (627)..(627)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (631)..(631)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (643)..(643)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (660)..(660)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (671)..(671)
 <223> n is a, c, g, or t

<400> 93
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 caatggcggc gaaggaaccg atgcgcgtgc tcgtcaccgg cgccgcagga caaattggat 120
 atgctcttgt tccgatgatt gctaggggaa ttatgcttgg tgcggaccag cctgttattc 180
 tgcatatgct ggatattcca ccagctgctg aagctcttaa tgggtgtaag atggagttgg 240

ttgatgccgc atttccactt ctcaagggag ttgttgcaac aactgatgtt gttgaggctt	300
gcactggtgt gaatgttgcg gttatggttg gtggattccc caggaaggag ggaatggaaa	360
ggaaggatgt tatgtctaaa aatgtttcaa tctacaaatc tcaagcatct gcccttgaag	420
cccatgcagc cccgaattgc aaggttctgg ttgttgccaa tccagcaaac accaatgctt	480
ttatcttaaa ggagtttgct ccatctattc ctganaagaa catnanttgt ttgacccgcc	540
taaaccataa cagggcactt ggtcagatct ntganagact tgatggccaa gttagn gatg	600
tgaaaaatgt tatcatntgg ggcaatnact nttccagtca gtnccctgat gtgaaccacn	660
cccccgaaa nacttccag	679

<210> 94
 <211> 676
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (27)..(27)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (676)..(676)
 <223> n is a, c, g, or t

<400> 94	
cggtgtcgtc gcctcctccc gaccctnctc ccctccccga actccagaac cggctccaat	60
ggcggcgaag gaaccgatgc gcgtgctcgt caccggcgcc gcaggacaaa ttggatatgc	120
tcttgttccg atgattgcta ggggaattat gcttggtgcg gaccagcctg ttattctgca	180
tatgctggat attccaccag ctgctgaagc tcttaatggt gttaagatgg agttggttga	240
tgccgcattt ccacttctca agggagttgt tgcaacaact gatgttggtg aggcctgcac	300
tggtgtgaat gttgcggtta tgggttggtg attccccagg aaggagggaa tggaaaggaa	360
ggatgttatg tctaagaatg tttcaatcta caaatctcaa gtatctgccc ttgaagccca	420
tgcagccccg aattgcaagg ttctggttgt tgccaatcca gcaaacacca atgctcttat	480
cttaaaggag tttgctccat ctattcctga gaagaacatc agttgtttga cccgcctaga	540
ccataacagg gcacttggtc agatctctga gagacttgat gtccaagtta gtgatgtgaa	600
gaatgttatc atctggggca atcactcttc cagtcagtac cctgatgtga accacgccac	660
cgtgaagact tccagn	676

<210> 95
 <211> 786
 <212> DNA
 <213> Lolium perenne

<400> 95
ccgttgctcgt cgcctcctcc cgaaccactc tccccatccc cgaactccag aaccggctcc 60
aatggcggcg aaggaaccga tgcgcgtgct cgtcaccggc gccgcaggac aaattggata 120
tgctcttggt cccgatgattg ctaggggaat tatgcttggt gcggaccagc ctgttattct 180
gcatatgctg gatattccac cagctgctga agctcttaat ggtgttaaga tggagttggt 240
tgatgccgca tttccacttc tcaagggagt tgttgcaaca actgatgttg ttgaggcttg 300
cactgggtgtg aatgttgccg ttatggttgg tggattcccc aggaaggagg gaatggaaag 360
gaaggatgtt atgtctaaga atgtttcaat ctacaaatct caagcatctg cccttgaagc 420
ccatgcagcc ccgaattgca aggttctggt tgttgccaat ccagcaaaca ccaatgctct 480
tatcttaaag gagtttgctc catctattcc tgagaagaac atcagttatt tgacccgcct 540
agaccataac agggcacttg gtcagatctc tgagagactt gatgtccaag ttagtgatgt 600
gaagaatgtt atcatctggg gcaatcactc ttccagtcag taccctgatg tgaaccacgc 660
caccgtgaag acttccagtg gcgagaagcc tgttcgcgaa cttgttaaag acgatgaatg 720
gctaaatgca gggttcattg ccactgtcca gcagcgtggt gctgcaatca tcaaagcgag 780
gaagct 786

<210> 96
<211> 772
<212> DNA
<213> *Lolium perenne*

<220>
<221> misc_feature
<222> (29)..(29)
<223> n is a, c, g, or t

<400> 96
ggaccctctc cccatccccg aactccagna ccggctccaa tggcggcgaa ggaaccgatg 60
cgcgtgctcg tcaccggcgc cgcaggacaa attggatatg ctcttgttcc gatgattgct 120
aggggaatta tgcttggtgc ggaccagcct gttattctgc atatgctgga tattccacca 180
gctgctgaag ctcttaatgg tgtaaatgag gagttggttg atgccgcatt tccacttctc 240
aaggagattg ttgcaacaac tgatgttggt gaggttgca ctggtgtgaa tgttgcggtt 300
atggttggtg gatccccag gaaggaggga atggaaagga aggatgttat gtctaagaat 360
gtttcaatct acaaattctc agcatctgcc cttgaagccc atgcagcccc gaattgcaag 420
gttctggttg ttgccaatcc agcaaacc aatgctctta tcttaaagga gtttgctcca 480
tctattctcg agaagaacat cagttgtttg acccgctag accataacag ggcacttggt 540
cagatctctg agagacttga tgtccaagtt agtgatgtga agaattgttat catctggggc 600
aatcactctt ccagtcagta ccctgatgtg aaccacgcca ccgtgaggac ttccagtggc 660

gagaagcctg ttcgcgaact tgtaaagac gatgaatggc taaatgcagg gttcattgcc	720
actgtccagc agcgtggtgc tgcaatcatc aaagcgagga agctctccag tg	772

<210> 97
 <211> 676
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (7)..(7)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (9)..(9)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (14)..(14)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (36)..(36)
 <223> n is a, c, g, or t

<400> 97	
nccccgnant ccanaccggc tccaaggcgg cgaagnaacc gagcgcgctgc tcgtcaccgg	60
cgccgcagga caaattggat atgctcttgt tccgatgatt gctaggggaa ttatgcttgg	120
tgccggaccag cctgttattc tgcatatgct ggatattcca ccagctgctg aagctcttaa	180
tggtgttaag atggagttgg ttgatgccgc atttccactt ctcaagggag ttgttgcaac	240
aactgatgtt gttgaggctt gcactggtgt gaatgttgcg gttatggttg gtggattccc	300
caggaaggag ggaatggaaa ggaaggatgt tatgtctaag aatgtttcaa tctacaaatc	360
tcaagcatct gcccttgaag cccatgcagc cccgaattgt aaggttctgg ttgttgccaa	420
tccagcaaac accaatgctc ttatcttaaa ggagtttgct ccatctattc ctgagaagaa	480
catcagttgt ttgaccgcc tagaccataa cagggcactc ggtcagatct ctgagagact	540
tgatgtccaa gttagtgatg tgaagaatgt tatcatctgg ggtaatcact cttccagtca	600
ataccctgat gtgaaccacg ccaccgtgaa gacttccagt ggcgagaagc ctgttcgcga	660
acttgtaaaa gacgat	676

<210> 98
 <211> 763

<212> DNA
<213> *Lolium perenne*

<220>
<221> misc_feature
<222> (36)..(36)
<223> n is a, c, g, or t

<400> 98
ggaccgatgc ccgtgctcgt caccggcgcc gcaggncaaa ttggatatgc tcttgttccg 60
atgattgcta ggggaattat gcttggtgcg gaccagcctg ttattctgca tatgctggat 120
attccaccag ctgctgaagc tcttaatggt gttaagatgg agttggttga tgccgcattt 180
ccacttctca agggagttgt tgcaacaact gatgttggtg aggcttgcac tgggtgtgaat 240
gttgcggtta tggttggtgg attccccagg aaggaggga tggaaaggaa ggatgttatg 300
tctaagaatg tttcaatcta caaatctcaa gcatctgccc ttgaagccca tgcagccccg 360
aattgcaagg ttctggttgt tgccaatcca gcaaacacca atgctcttat cttaaaggag 420
tttgctccat ctattcctga gaagaacatc agttgtttga cccgcctaga ccataacagg 480
gcacttggtc agatctctga gagacttgat gtccaagtta gtgatgtgaa gaatgttatc 540
atctggggca atcactcttc cagtcagtac cctgatgtga accacgccac cgtgaagact 600
tccagtggcg agaagcctgt tcgcgaactt gttaaagacg atgaatggct aaatgcaggg 660
ttcattgcca ctgtccagca gcgtggtgct gcaatcatca aagcgaggaa gctctccagt 720
gctctctctg ctgccagctc tgcttgtgac cacatccgtg att 763

<210> 99
<211> 513
<212> DNA
<213> *Lolium perenne*

<220>
<221> misc_feature
<222> (435)..(435)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (453)..(453)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (458)..(458)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (469)..(469)
<223> n is a, c, g, or t

<220>

<221> misc_feature
 <222> (472)..(472)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (482)..(482)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (485)..(486)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (488)..(488)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (491)..(491)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (500)..(501)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (503)..(503)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (506)..(506)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (511)..(511)
 <223> n is a, c, g, or t

<400> 99
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 gctcttaatg gtgttaagat ggagttgggt gatgccgcat ttccacttct caagggagtt 120
 gttgcaacaa ctgatgttgt tgaggcttgc actggtgtga atgttgcggt tatggttggt 180
 ggattcccca ggaaggaggg agtggaagg aaggatgtta tgtctaagaa tgtttcaatc 240
 tacaaatctc aagcatctgc ccttgaagcc catgcagccc cgaattgcaa ggttctgggt 300
 gttgccaatc cagcaaacac caatgctctt atcttaaagg agtttgctcc atctattcct 360
 gagaagaaca tcagttgttt gaccgccta gaccataaca gggcacttgg tcagatctct 420
 gagagacttg atgtncaggt tagtgatgtg aanaatgnta tcatctggnc anctcactct 480
 tncanncntt nccctgatgn nanccncgcc ncg 513

<210> 100
 <211> 664
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (2)..(2)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (83)..(83)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (85)..(86)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (241)..(241)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (534)..(534)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (570)..(570)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (576)..(576)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (605)..(605)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (610)..(610)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (620)..(620)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (640)..(640)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (650)..(650)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (653)..(653)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (657)..(657)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (660)..(660)

<223> n is a, c, g, or t

<400> 100

tnggttggtg gattccccag gaaggaggga atggaaagga aggatgttat gtctaagaat 60

gtttcaatct acaaattctca agngnntgcc cttgaagccc atgcagcccc gaattgcaag 120

gtttctggttg ttgccaatcc agcaaacacc aatgctctta tcttaaagga gtttgctcca 180

tctattcctg agaagaacat cagttgtttg acccgctag accataacag ggcacttggt 240

nagatctctg agagacttga tgtccaagtt agtgatgtga agaattgttat catctggggc 300

aatcactctt ccagtcagta ccctgatgtg aaccacgcca ccgtgaagac ttccagtggc 360

gagaagcctg ttcgcaact tgttaaagac gatgaatggc taaatgcagg gttcattgcc 420

actgtccagc agcgtggtgc tgcaatcatc aaagcgagga agctttccag tgctcttttt 480

gctgccagct ctgcttgta ccacatccgg gattgggttc tcggaacccc tganggaaca 540

tttgtttcca tgggtgtgta ttctgatggn tatacnnggt gcctgggtggg cttatctact 600

ccttnccagn aacttgctgn gggggggaat ggacaattgn tcaaaggctn ccnatchnacn 660

agtt 664

<210> 101

<211> 734

<212> DNA

<213> Lolium perenne

<220>

<221> misc_feature

<222> (722)..(722)

<223> n is a, c, g, or t

<400> 101

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ccagcaaaca ccaatgctct tatcttaaag gagtttgctc catctattcc tgagaagaac 120

atcagttggt tgacccgctt agaccataac agggcactcg gtcagatctc tgagagactt 180

gatgtccaag ttagtgatgt gaagaatggt atcatctggg gtaatcactc ttccagtcaa 240

taccctgatg tgaaccacgc caccgtgaag acttccagtg gcgagaagcc tgttcgcgaa 300

cttgttaaag acgatgaatg gctaaatgca gggttcattg ccactgtcca gcagcgtggt	360
gctgcaatca tcaaagcgag gaagctctcc agtgctctct ctgctgccag ctctgcttgt	420
gaccacatcc gtgattgggt tcttgaacc cctgagggaa catttgtttc catgggtgtg	480
tattctgatg gttcatacgg tgtgcctgct gggcttatct actccttccc agtaacttgc	540
tgcggtggtg aatggacaat tgttcaaggg ctcccgatcg acgagttctc aagaaagaag	600
atggatgcca cagcccagga gctctcggag gagaaggctc tcgcctactc gtgcctcgag	660
taactgcata ccaggagga gctgccgctc tgatgttttg aataaaagga acattttggc	720
tncatgaaac tcat	734

<210> 102
 <211> 705
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (14)..(14)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (16)..(16)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (456)..(456)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (608)..(608)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (689)..(689)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (698)..(698)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (701)..(701)
 <223> n is a, c, g, or t

<400> 102	
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tatcttaaag gagtttgctc catctattcc tgagaagaac atcagttggt tgacccgcct	120

agaccataac agggcacttg gtcagatctc tgagagactt gatgtccaag ttagtgatgt	180
gaagaatggt atcatctggg gcaatcactc ttccagtcag taccctgatg tgaaccacgc	240
caccgtgaag acttccagtg gcgagaagcc tggtcgcgaa cttgttaaag acgatgaatg	300
gctaaatgca ggggttcattg ccaactgtcca gcagcgtggg gctgcaatca tcaaagcgag	360
gaagctctcc agtgctctct ctgctgccag ctctgcttgt gaccacatcc gtgattgggt	420
tctcggaaac cctgagggaa catttgtttc catggnctgtg tattctgatg gttcatacgg	480
tgtgcctgct gggcttatct actccttccc agtaacttgc tgcggtggtg aatggacaat	540
tgttcaaggg ctcccgatcg acgagttctc aagaaagaag atggatgcca cagcccagga	600
gctctcgnag gagaaggctc tcgcctactc gtgcctcgag taactgcata ccaggagca	660
gctgtcgtc tgatgttttg aataaaagna cattttgnct ncatg	705

<210> 103
 <211> 667
 <212> DNA
 <213> Lolium perenne

<400> 103	
tgcagccccg attgcaagg tctggttggt gccaatccag caaacaccaa tgctcttattc	60
ttaaaggagt ttgtccatc tattcttgag aagaacatca gttgtttgac ccgcctagac	120
cataacaggg cacttggtca gatctctgag agacttgatg tccaagttag tgatgtgaag	180
aatgttatca tctggggcaa tcactcttcc agtcagtacc ctgatgtgaa ccacgccacc	240
gtgaagactt ccagtggcga gaagcctggt cgcgaacttg ttaaagacga tgaatggcta	300
aatgcagggt tcattgccac tgtccagcag cgtggtgctg caatcatcaa agcgaggaag	360
ctctccagtg ctctctctgc tgccagctct gcttgtagacc acatccgtga ttgggttctc	420
ggaacccttg agggaaacatt tgtttccatg ggtgtgtatt ctgatgggtc atacggtgtg	480
cctgctgggc ttatctactc cttcccagta acttgctgcg gtggtgaatg gacaattggt	540
caagggctcc cgatcgacga gttctcaaga aagaagatgg atgccacagc ccaggagctc	600
tcggaggaga aggctctcgc ctactcgtgc ctcgagtaac tgcataccag ggagcagctg	660
ccgctct	667

<210> 104
 <211> 748
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (28)..(28)
 <223> n is a, c, g, or t
 <400> 104

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cgagaagcct gttcgcgaac ttgttaaaga cgatgaatgg ctaaatgcag gggttcattgc	120
cactgtccag cagcgtggtg ctgcaatcat caaagcgagg aagctctcca gtgctctctc	180
tgctgccagc tctgcttggtg accacatccg tgattggggt ctcggaaccc ctgaggggaac	240
atgtgtttcc atgggtgtgt attctgatgg ttcatacggg gtgcctgctg ggcttatcta	300
ctccttccca gtaacttgct gcggtggtga atggacaatt gttcaagggc tcccgatcga	360
cgagttctca agaaagaaga tggatgccac agcccaggag ctctcggagg agaaggctct	420
cgcctactcg tgcctcgagt aactgcatac cagggagcag ctgccgctct gatgttttga	480
ataaaaggaa cattttggct ccatgaaact catctccact cagaacagtt gcacatcgcg	540
gtgccttttag ctgggttttcc cagtgtgtat gaatgaggct tttgtagctc tattttcgcc	600
tgatgattta caggacagga tattggcagg aagattggaa caatttgacg tctgattaaa	660
accaacctct tattattccc gtgtgtatga atgaggcttt ttagctcta ttttcgcctg	720
atgatttaca ggccatgata ttggcagg	748

<210> 105
 <211> 646
 <212> DNA
 <213> Lolium perenne

<400> 105	
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acttgttaaa gacgatgaat ggctaaatgc agggttcatt gccactgtcc agcagcgtgg	120
tgctgcaatc atcaaagcga ggaagctctc cagtgtctct tctgctgcca gctctgcttg	180
tgaccacatc cgtgattggg ttctcggaac ccctgagggg acatttgttt ccatgggtgt	240
gtattctgat gggtcatacg gtgtgcctgc tgggcttata tactccttcc cagtaacttg	300
ctgcggtggt gaatggacaa ttgttcaagg gctcccgggc gacgagttct caagaaagaa	360
gatggatgcc acagcccagg agctctcgga ggagaaggct cttgcctact cgtgcctcga	420
gtaactgcat accagggagc agctgccgct ctgatgtttt gaataaaagg aacatttttg	480
ctccatgaaa ctcatctcca ctcagaacag ttgcacatcg cgggtgccttt agctgggttt	540
tccagtgtgt atgaatgagg cttttgtagc tctattttcg cctgatgatt tacaggacag	600
gatattggca ggaagattgg aacaatttga cgtctgatta aaacca	646

<210> 106
 <211> 750
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 cattgccact gtccagcagc gnggtgctgc aatcatcaaa gcgaggaagc tctccagtgc 120
 tctctctgct gccagctctg cttgtgacca catccgtgat tgggttctcg gaacccctga 180
 gggaacattt gtttccatgg gtgtgtattc tgatggttca tacggtgtgc ctgctgggct 240
 tatctactcc ttcccagtaa cttgctgcgg tggatgaatgg acaattgttc aagggctccc 300
 gatcgacgag ttctcaagaa agaagatgga tgccacagcc caggagctct cggaggagaa 360
 ggctctcgcc tactcgtgcc tcgagtaact gcataccagg gagcagctgc cgctctgatg 420
 ttttgaataa aaggaacatt ttggctccat gaaactcatc tccactcaga acagttgcac 480
 atcgcggtgc cttcagctgg tttttccagt gtgtatgaat gaggcctttg tagctctatt 540
 ttcgcctgat gatttacagg acaggatatt ggcaggaaga ttggaacaat ttgacgtctg 600
 attaaaacca acctcttatt attcctgtgt gtatgaatga ggcttttgta gctctatatt 660
 cgcctgatga ttacaggcc atgatattgg caggaggatt ggaacaattt gacgcctgat 720
 taaaaccaac ctcttattac taaaaaaaaa 750

<210> 107
 <211> 616
 <212> DNA
 <213> Lolium perenne

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 ccactgtcca gcagcgtggt gctgcaatca tcaaagcgag gaagctctcc agtgctctct 120
 ctgctgccag ctctgcttgt gaccacatcc gtgattgggt tctcgaacc cctgagggaa 180
 ctttgtttc catgggtgtg tttctgatg gttcatacgg tgtgcctgct gggcttatct 240
 actccttccc agtaacttgc tgcggtggtg aatggacaat tgttcaaggc ctcccgatcg 300
 acgagttctc aagaaagaag atggatgcca cagcccagga gctctcggag gagaaggctc 360
 tcgcctactc gtgcctcgag taactgcata ccaggagagca gctgccgctc tgatgttttg 420
 aataaaagga acattttggc tccatgaaac tcattctccac tcagaacagt tgcacatcgc 480
 ggtgccttta gctggttttt ccagtgtgta tgaatgaggc ttttgtagcg ctattttcgc 540
 ctgatgattt acaggacagg atattggcag gaagattgga acaatttgac gtctgattaa 600
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<400> 108
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 agaaggttnt cgcctactcg ggcctcgagt aactgcatac cagggagcag ctgccgctct 120
 gatgttttga ataaaaggaa cattttggct ccatgaaact catctccact cagaacagtt 180
 gcacatcgcg gtgccttttag ctggtttttc cagtgtgtat gantgaggct tttgtagctc 240
 tattttcgcc tgatgattta caggacagga tattggcagg aagattggaa caatttgacg 300
 tctgattaaa accaacctct tattattcct gtgtgtatga atgaggcttt tgtagctcta 360
 ttttcgcctg atgatttaca ggacatgata ttggcaggag gattggaaca annanann 418

<210> 109
 <211> 265
 <212> DNA
 <213> Lolium perenne

<400> 109
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 tgccgctctg atgttttgaa taaaaggaaac attttggtctc catgaaactc atctccactc 120
 agaacagttg cacatcgcgg tgccttttagc tgggtttttcc agtgtgtatg aatgaggctt 180
 ttgtagctct attttcgcct gatgatttac aggacaggat attggcagga agattggaac 240
 aatttgacgt ctgacaaaaa aaaaa 265

<210> 110
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 <223> n is a, c, g, or t

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aagattggaa caatttgacg tctgattaa accaacctct tatattcctg tgtgtatgaa	120
tgaggctttt gtagctctat tttcgctga tgatttacag gccacgatat tggcaggagg	180
attggaacaa tttgacgcct gattaaacc aacctcttat tattctaaaa aaaaaa	236

<210> 111
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<223> n is a, c, g, or t

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gtaccaattg ctgctgaagt atttaaaaaa gctgggacat acaatnctaa gagattgttg 120
ggggttgaca acngttngat gnnantgaca gaccntgctc ttngnngncg aggtncn 177

<210> 112
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<400> 112

Xaa His Lys Ala Ala Gln Ser Asn Xaa Xaa Asn Ile Ile Ser Asn Pro
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Val Asn Ser Thr Val Pro Ile Ala Ala Glu Val Phe Lys Lys Ala Gly
 20 25 30

Thr Tyr Asn Xaa Lys Arg Leu Leu Gly Val Asp Asn Xaa Xaa Met Xaa
 35 40 45

Xaa Thr Asp Xaa Ala Leu Xaa Xaa Arg Gly
 50 55

<210> 113
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 <212> DNA
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 <223> n is a, c, g, or t

<220>
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 <222> (582)..(582)
 <223> n is a, c, g, or t

<400> 113
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 ggacatggcg tcagctgtta caatcagttc agtcagcgcg caggccgctt tggtttcaaa 120
 accaaggaac catggcagca cgagctacag tggcctaaag gcatcatcgt cgtcgatcag 180
 cttcgaatca ggaacatcat tcctgggcaa gaccgcctcc ctccgggcaa ctgttaccac 240
 aagggttgtg ccaaaggcga agtctgggtc gcagatatcg cctcaggcat cttacaaggt 300
 ggcggtgctt ggtgctgctg gtggcatcgg tcaaccactg ggcttgctga tcaagatgtc 360
 tcctctggtc tcggagctgc gcctgtatga tatcggaat gtcaagggcg tcgctgcaga 420
 tctcagccac tgcaacacgc ctgctcaggt catggacttc actggccccg cagagctagc 480
 agagtgcttg aaagggtgtg atgttgctgt catccctgcg ggtgtcccaa ggaagccagg 540
 catgaccctg gatgaccttt ttaacatnaa tgcgggaatc gncaagtcgc ttattgaggc 600
 tgttgcagac aattgccctg agggccttat tcatatcatc aacaaccccc gtcaaactcc 660
 ccct 664

<210> 114
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<220>
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 <223> Xaa can be any naturally occurring amino acid

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 <222> (13)..(13)
 <223> Xaa can be any naturally occurring amino acid

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 <223> Xaa can be any naturally occurring amino acid

<400> 114

Xaa Arg Ser Arg Arg Arg Gly Ala Glu Phe His Leu Xaa Thr Leu Pro

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Ala	Ser	Ala	Val
	25	Thr	Ile
Ser	Ser	Val	Ser
	30		
Ala	Gln	Ala	Ala
	35	Leu	Val
Ser	Lys	Pro	Arg
	40	Asn	His
Gly	Ser	Thr	Ser
	45		
Tyr	Ser	Gly	Leu
	50	Lys	Ala
Ser	Ser	Ser	Ser
	55	Ile	Ser
Phe	Glu	Ser	Gly
	60		
Thr	Ser	Phe	Leu
	65	Gly	Lys
Thr	Ala	Ser	Leu
	70	Arg	Ala
Thr	Val	Thr	Thr
	75		80
Arg	Val	Val	Pro
	85	Lys	Ala
Lys	Ser	Gly	Ser
	90	Gln	Ile
Ser	Pro	Gln	Ala
	95		
Ser	Tyr	Lys	Val
	100	Ala	Val
Leu	Gly	Ala	Ala
	105	Gly	Gly
Ile	Gly	Gln	Pro
	110		
Leu	Gly	Leu	Leu
	115	Ile	Lys
Met	Ser	Pro	Leu
	120	Val	Ser
Glu	Leu	Arg	Leu
	125		
Tyr	Asp	Ile	Ala
	130	Asn	Val
Lys	Gly	Val	Ala
	135	Ala	Ala
Asp	Leu	Ser	His
	140	Cys	
Asn	Thr	Pro	Ala
	145	Gln	Val
Met	Asp	Phe	Thr
	150	Gly	Pro
Ala	Glu	Leu	Ala
	155		160
Glu	Cys	Leu	Lys
	165	Gly	Val
Asp	Val	Val	Val
	170	Ile	Pro
Ala	Gly	Val	Pro
	175		
Arg	Lys	Pro	Gly
	180	Met	Thr
Arg	Asp	Asp	Leu
	185	Phe	Asn
Xaa	Asn	Ala	Gly
	190		
Ile	Xaa	Lys	Ser
	195	Leu	Ile
Glu	Ala	Val	Ala
	200	Asp	Asn
Cys	Pro	Glu	Gly
	205		
Leu	Ile	His	Ile
	210	Ile	Asn
Asn	Pro	Gly	Gln
	215	Thr	Pro
Pro	Pro		
	220		

<210> 115
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aaccagnacg caaggggcgga gccggggcgc acgcagcaat tcccatctgc tcaccaaccc 120

aagttggaga tggcatcagc tgttaccatc agctcagtca gcgcgcaggc cgctttggtc 180

tcgaaaccaa ggaatcatgg cagcacaagc tacagtggcc taaaggcatc atcatcgtcg	240
atcagcttcg aatcagggac atcattcctg ggcaagaccg cctctcttcg ggcgactatc	300
acctcaagga ttgtgccaaa ggcaaagtct ggggtctcaga tatcacctca ggcctcgtac	360
aaggtggcgg tgcttggtgc tgccgggtggc atcgggtcaac cactgggcct gctgatcaag	420
atgtctcctc tgggtctcaga gctgcgctg tatgatattg ccaatgtcaa gggagtcgct	480
gcagatctca gccactgcaa cacgccttct cagggtcatgg acttcactgg cccagcagaa	540
ctagctgact gcttgaaagg tgttgatgtt gtcgtcatcc ctgcgggtgt cccaaggaag	600
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tccactgtgc cgattgctgc tgagattctg aaacagaagg gcgtctacaa cccaagaag	780
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aacctcagcc tcatcgtatg tgatgtcca gttgtcgggt gccatgctgg gatcacgatt	900
ctgcctctgt tgtccaagac taggccttct gtcagcttca cggacgagga aactgaacag	960
ctgacaaaga ggatacagaa cgctgggaca gaggcgggtg aggcgaaggc tggtgctggc	1020
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atggctggtg atccagatgt ttacgagtgc acgtatgttc agtctgagtt aacagagctt	1140
ccattcttcg cgtccagagt taagcttggg aaggacggng ttgagtccat catttctcc	1200
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aag	1263

<210> 116
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<400> 116

Xaa Leu Xaa Xaa Gln Xaa Ser Xaa Xaa His Leu Ala Leu His Xaa Xaa
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Lys Thr Lys Xaa Asn Gln Xaa Ala Arg Gly Glu Pro Gly Arg Thr Gln
 20 25 30

Gln Phe Pro Ser Ala His Gln Pro Lys Leu Glu Met Ala Ser Ala Val
 35 40 45

Thr Ile Ser Ser Val Ser Ala Gln Ala Ala Leu Val Ser Lys Pro Arg
 50 55 60

Asn His Gly Ser Thr Ser Tyr Ser Gly Leu Lys Ala Ser Ser Ser Ser
 65 70 75 80

Ile Ser Phe Glu Ser Gly Thr Ser Phe Leu Gly Lys Thr Ala Ser Leu
 85 90 95

Arg Ala Thr Ile Thr Ser Arg Ile Val Pro Lys Ala Lys Ser Gly Ser
 100 105 110

Gln Ile Ser Pro Gln Ala Ser Tyr Lys Val Ala Val Leu Gly Ala Ala
 115 120 125

Gly Gly Ile Gly Gln Pro Leu Gly Leu Leu Ile Lys Met Ser Pro Leu
 130 135 140

Val Ser Glu Leu Arg Leu Tyr Asp Ile Ala Asn Val Lys Gly Val Ala
 145 150 155 160
 Ala Asp Leu Ser His Cys Asn Thr Pro Ser Gln Val Met Asp Phe Thr
 165 170 175
 Gly Pro Ala Glu Leu Ala Asp Cys Leu Lys Gly Val Asp Val Val Val
 180 185 190
 Ile Pro Ala Gly Val Pro Arg Lys Pro Gly Met Thr Arg Asp Asp Leu
 195 200 205
 Phe Asn Ile Asn Ala Gly Ile Val Lys Ser Leu Ile Glu Ala Val Ala
 210 215 220
 Asp Asn Cys Pro Glu Ala Phe Ile His Ile Ile Ser Asn Pro Val Asn
 225 230 235 240
 Ser Thr Val Pro Ile Ala Ala Glu Ile Leu Lys Gln Lys Gly Val Tyr
 245 250 255
 Asn Pro Lys Lys Leu Phe Gly Val Ser Thr Leu Asp Val Val Arg Ala
 260 265 270
 Asn Thr Phe Val Ala Gln Lys Lys Asn Leu Ser Leu Ile Asp Val Asp
 275 280 285
 Val Pro Val Val Gly Gly His Ala Gly Ile Thr Ile Leu Pro Leu Leu
 290 295 300
 Ser Lys Thr Arg Pro Ser Val Ser Phe Thr Asp Glu Glu Thr Glu Gln
 305 310 315 320
 Leu Thr Lys Arg Ile Gln Asn Ala Gly Thr Glu Ala Val Glu Ala Lys
 325 330 335
 Ala Gly Ala Gly Ser Ala Thr Leu Ser Met Ala Tyr Ala Ala Ala Arg
 340 345 350
 Phe Val Glu Ser Ser Leu Arg Ala Met Ala Gly Asp Pro Asp Val Tyr
 355 360 365
 Glu Cys Thr Tyr Val Gln Ser Glu Leu Thr Glu Leu Pro Phe Phe Ala
 370 375 380
 Ser Arg Val Lys Leu Gly Lys Asp Xaa Val Glu Ser Ile Ile Ser Ser
 385 390 395 400

Asp Leu Glu Gly Val Thr Glu Tyr Glu Ala Lys Ala Leu Xaa Ala Leu
405 410 415

Lys Ala Glu Leu Lys
420

<210> 117
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<212> DNA
<213> Lolium perenne

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 <223> n is a, c, g, or t

<220>
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 <222> (589)..(589)
 <223> n is a, c, g, or t

<220>
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 <222> (603)..(603)
 <223> n is a, c, g, or t

<220>
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 <222> (645)..(646)
 <223> n is a, c, g, or t

<220>
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 <222> (705)..(705)
 <223> n is a, c, g, or t

<220>
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 <222> (707)..(707)
 <223> n is a, c, g, or t

<400> 117
 tntttanccc nccaantatc cagnanccac ctgcccccaa ccaanaaaaa naaaaagnag 60
 ccagnacgca aggggcgagc cgggg'gcac gcagcaattc ccatctgctc accaacccaa 120
 gttggagatg gcatcagctg ttaccatcag ctcagtcagc gcgcaggccg ctttggtctc 180
 gaaaccaagg aatcatggca gcacaagcta cagtggccta aaggcatcat catcgtcgat 240
 cagcttcgaa tcagggacat cattcctggg caagaccacc tctcttcggg cgactatcac 300
 ctcaaggatt gtgccaaagg caaagtctgg gtctcagata tcacctcagg cctcgtacaa 360
 ggtggcggtg cttggtgctg acggtggcat cgggtcaacca ctgggcctgc tgatcaagat 420
 gtctcctctg gtctcagagc tgcgcctgta tgatattgac aatgtcaagg gagtcgctgc 480
 agatctcagn cactgcaaca cgccttctca ggtcatggac ttactggcc cagcagaact 540
 agctgactgc ttgaaagggtg ttgatgttgt cgncatccct gcgggtgtnc caaggaagcc 600
 agncatgacc cgtgatgacc tttttaacat caatgcgggc atcgnaagt cgcttattga 660
 ggctgttgca gacaactccc ctgaggcctt catccatatc atcancnacc c 711

<210> 118
 <211> 647
 <212> DNA

<213> Lolium perenne

<220>

<221> misc_feature

<222> (2)..(2)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (15)..(15)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (21)..(21)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (27)..(28)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (34)..(34)

<223> n is a, c, g, or t

<400> 118

gngcccccac ccaanaaaaa naaaaannac cagnagcagg ggcgagccgg ggcgcacgca 60

gcaattccca tctgctcacc aaccaagtt ggagatggca tcagctgtta ccatcagctc 120

agtcagcgcg caggccgctt tggctctgaa accaaggaat catggcagca caagctacag 180

tggcctaaag gcatcatcat cgtcgatcag cttcgaatca gggacatcat tcctgggcaa 240

gaccgcctct cttcggggcga ctatcacctc aaggattgtg ccaaaggcaa agtctgggtc 300

tcagatatca cctcaggcct cgtacaaggt ggcggtgctt ggtgctgccg gtggcatcgg 360

tcaaccactg ggctgtctga tcaagatgtc tcctctgggtc tcagagctgc gcctgtatga 420

tattgccaat gtcaagggag tcgctgcaga tctcagccac tgcaacacgc cttctcaggt 480

catggacttc actggcccag cagaactagc tgactgcttg aaaggtgttg atgttgctgt 540

catccctgcg ggtgtcccaa ggaagccagg catgaccgt gatgaccttt ttaacatcaa 600

tgcgggcatc gtcaagtcgc ttattgaggc tgttgcagac aactgcc 647

<210> 119

<211> 801

<212> DNA

<213> Lolium perenne

<220>

<221> misc_feature

<222> (2)..(2)

<223> n is a, c, g, or t

<220>

<221> misc_feature
 <222> (34)..(35)
 <223> n is a, c, g, or t

<220>
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 <222> (760)..(760)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (800)..(800)
 <223> n is a, c, g, or t

<400> 119
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 agcaattccc atctgctcac caacccaagt tggacatggc atcagctggt accatcagtt 120
 cggtcagcgc gcagtcgct ctggtttcga aaccaaggaa tcatggcagc acgagcttcg 180
 gtggcctaaa ggcatcatcg gcgtcgatca gctttgaatc agggacatcg ttcctgggca 240
 agactgcctc cctccgggcg actgttacct caaggattgt gccaaaggca aagtctgggt 300
 ctcagatata gcctcaggca tcttacaagg tggcgggtgct tgggtgctgct ggtggcatcg 360
 gccaaacctt gggcctgctg atcaagatgt ctctctagt ctcagagctg cgcctgtatg 420
 atattgccaa tgtcaagggc gtcgctgcag atcttagcca ctgcaacacg ccttctcagg 480
 tcatggactt cactggcccc gcggaactag ccgactgctt gaaaggtgtg gatgttgtcg 540
 tcatccctgc ggggtgtcca aggaagcctg gcatgactcg tgatgacctt tttaacatca 600
 atgcgggcat cgtcaagtcg cttatcgagg ctgttgacga caactgccct gaggccttca 660
 tccatatcat cagcaaccgc gtcaactcca cggtgccgat tgctgctgag attctgaaac 720
 agaagggcgt ctacaacccc aagaagctct tcgggggttn caccctggat gttgtcagag 780
 ctaacacatt ttagctcan a 801

<210> 120
 <211> 692
 <212> DNA
 <213> Lolium perenne

<220>
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 <222> (2)..(2)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (9)..(9)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (14)..(14)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (19)..(20)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (26)..(27)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (33)..(33)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (632)..(632)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (686)..(686)
 <223> n is a, c, g, or t

<400> 120
 gncccccanc caanaaaann aaaaannacc agnagcaggg gcgagccggg gcgcacgcag 60
 caattcccat ctgctcacca acccaagttg gagatggcat cagctgttac catcagctca 120
 gtcagcgcgc aggccgcttt ggtctcga aa ccaaggaatc atggcagcac aagctacagt 180
 ggcctaaagg catcatcatc gtcgatcagc ttcgaatcag ggacatcatt cctgggcaag 240
 accgcctctc ttcgggcgac tatcacctca aggattgtgc caaaggcaaa gtctgggtct 300
 cagatatcac ctcaggcctc gtacaaggtg gcggtgcttg gtgctgccgg tggcatcggt 360
 caaccactgg gcctgctgat caagatgtct cctctggtct cagagctgcg cctgtatgat 420
 attgccaatg tcaagggagt cgctgcagat ctcagccact gcaacacgcc ttctcaggtc 480
 atggacttca ctggcccagc agaactagct gactgcttga aaggtgttga tgttgtcgtc 540
 atccctgcgg gtgtctcaag gaagccaggc atgaccctg atgacctttt taacatcaat 600
 gcgggcatcg tcaagtcgct tattgaggct gntgcagaca actgccctga ggccttcac 660
 catatcatca gcaaccgggt caactncact gt 692

<210> 121
 <211> 695
 <212> DNA
 <213> Lolium perenne

<220>
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 <222> (8)..(9)
 <223> n is a, c, g, or t

<220>

<221> misc_feature
 <222> (20)..(20)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (26)..(27)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (29)..(29)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (34)..(34)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (687)..(687)
 <223> n is a, c, g, or t

<400> 121
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 gcaattccca tctgctcacc aaccaagtt ggagatggca tcagctgtta ccatcagctc 120
 agtcagcgcg caggccgctt tgggtctcga accaaggaat catggcagca caagctacag 180
 tggcctaaag gcatcatcat cgtcgcagcag cttcgaatca gggacatcat tcctgggcaa 240
 gaccgcctct cttcggggcga ctatcacctc aaggattgtg ccaaaggcaa agtctgggtc 300
 tcagatatca cctcaggcct cgtacaaggt ggcggtgctt ggtgctgccg gtggcatcgg 360
 tcaaccactg ggcctgctga tcaagatgtc tcctctgggtc tcagagctgc gcctgtatga 420
 tattgccaat gtcaaggagag tcgctgcaga tctcagccac tgcaacacgc cttctcaggt 480
 catggacttc actggccag cagaactagc tgactgcttg aaagggtgttg atgttgctcg 540
 catccctgcg ggtgtcccaa ggaagccagg cacgaccctg gatgaccttt ttaacatcaa 600
 tgcgggcatc gtcaagtcgc ttattgaggc tgttgcagac aactgccctg aggccctcat 660
 ccatatcatc agcaaccggt tcaactncac tgtga 695

<210> 122
 <211> 403
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (4)..(4)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (10)..(10)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (32)..(33)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (278)..(278)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (303)..(303)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (329)..(329)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (384)..(384)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (403)..(403)

<223> n is a, c, g, or t

<400> 122

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caattcccat ctgctcacca acccaagttg gacatggcat cagctgttac catcagttcg 120

gtcagcgcgc agtccgctct ggtttcgaaa ccaaggaatc atggcagcac gagcttcggt 180

ggcctaaagg catcatcggc gtcgatcagc tttgaatcag ggacatcggt cctgggcaag 240

actgcctccc tccgggagac tgttaccca aggattgngc caaaggcaaa gtctgggtct 300

canatatcgc ctcaggcatc ttacaaggng gcggtgcttg gtgctgctgg tggcatcggt 360

caaccactgg gcctgctgat caanatgtct cctctggtct can 403

<210> 123

<211> 561

<212> DNA

<213> Lolium perenne

<220>

<221> misc_feature

<222> (6)..(6)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (11)..(11)

<223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (19)..(19)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (23)..(23)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (31)..(31)
 <223> n is a, c, g, or t

<220>
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 <222> (43)..(43)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (534)..(534)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (536)..(536)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (549)..(550)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (554)..(554)
 <223> n is a, c, g, or t

<400> 123
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 attcccatct gtcaccaac ccaagttgga gatggcatca gctgttacca tcagctcagt 120
 cagcgcgcag gccgctttgg tctcgaaacc aaggaatcat ggcagcaca gctacagtgg 180
 cctaaaggca tcatcatcgt cgatcagctt cgaatcaggg acatcattcc tgggcaagac 240
 cgcctctctt cgggcgacta tcacctcaag gattgtgcca aaggcaaagt ctgggtctca 300
 gatatcacct caggcctcgt acaaggtggc ggtgcttggg gctgccgggtg gcatcgggtca 360
 accactgggc ctgctgatca agatgtctcc tctggtctca gagctgcgcc tgtatgatat 420
 tgccaatgtc aaggggagtcg ctgcagatct cagccactgg aacacgcctt ctcaggtcat 480
 ggacttgact ggcccagcag aactagctga ctgcttgaaa ggtgctgatg ttgncngcat 540
 ccctgcggnn gtcncaagga a 561

<210> 124
 <211> 659

<212> DNA
<213> Lolium perenne

<220>
<221> misc_feature
<222> (6)..(6)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (11)..(11)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (19)..(19)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (24)..(26)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (31)..(31)
<223> n is a, c, g, or t

<400> 124
gtttcncaga naaaaaccna aagnnnccag nacgcagggg cgagccgggg cgcacgcagc 60
aattcccatc tgctcaccaa cccaagttgg agatggcatc agctgttacc atcagctcag 120
tcagcgcgca ggccgctttg gtctcgaaac caaggaatca tggcagcaca agctacagtg 180
gcctaaaggc atcatcatcg tcgatcagct tcgaatcagg gacatcattc ctgggcaaga 240
ccgcctctct tcgggcgact atcacctcaa ggattgtgcc aaaggcaaag cctgggtctc 300
agatatcacc tcaggcctcg tacaaggtgg cggtgcttgg tgctgccggt ggcacggtc 360
aaccactggg cctgctgacg aagatgtctc ctctgggtctc agagctgcgc ctgtatgata 420
ttgccaatgt caagggagtc gctgcagatc tcagccactg caacacgcct tctcaggtca 480
tggacttcac tggccagca gaactagctg actgcttgaa aggtgttgat gttgtcgtca 540
tccctgcggg tgtcccaagg aagccaggca tgaccctga tgacctttt aacatcaatg 600
cgggcatcgt caagtcgctt attgaggctg ttgcagacaa ctcccctgag gccttcac 659

<210> 125
<211> 706
<212> DNA
<213> Lolium perenne

<220>
<221> misc_feature
<222> (2)..(3)
<223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (9)..(9)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (11)..(12)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (24)..(25)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (31)..(31)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (685)..(685)
 <223> n is a, c, g, or t

<400> 125
 gnnacacana nnaaaaacaa aaannaccag nagcaagggg cgagccgggg cgcacgcagc 60
 aattcccatc tgctcaccaa cccaagttgg agatggcatc agctgttacc atcagctcag 120
 tcagcgcgca ggccgctttg gtctcgaaac caaggaatca tggcagcaca agctacagtg 180
 gcctaaaggc atcatcatcg tcgatcagct tcgaatcagg gacatcattc ctgggcaaga 240
 ccgcctctct tcgggcgact atcacctcaa ggattgtgcc aaaggcaaag tctgggtctc 300
 agatatcacc tcaggcctcg tacaaggtgg cgggtgcttg tgctgccggt ggcacgcgtc 360
 aaccactggg cctgctgata aagatgtctc ctctgggtctc agagctgctc ctgtatgata 420
 ttgccaatgt caagggagtc gctgcagatc tcagccactg caacacgcct tctcaggtca 480
 tggacttcac tggcccagca gaactagctg gctgcttgaa aggtgttgat gttgtcgtca 540
 tccctgcggg tgtccaagg aagccaggca tgaccctgta tgaccttttt aacatcaatg 600
 cgggcatcgt caagtcgctt attgaggctg ttgcagacaa ctgccctgag gccttcatcc 660
 atatcatcag caaccgggtc aactncactg tgccgattgc tgctga 706

<210> 126
 <211> 706
 <212> DNA
 <213> Lolium perenne

<220>
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 <222> (9)..(9)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature

<222> (11)..(12)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (24)..(25)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (31)..(31)
<223> n is a, c, g, or t

<400> 126
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attcccatct gctcaccaac ccaagttgga gatggcatca gctgttacca tcagctcagt 120
cagcgcgcag gccgcttttg tctcgaaacc aaggaatcat ggcagcacaa gctacagtgg 180
cctaaaggca tcatcatcgt cgatcagctt cgaatcaggg acatcattcc tgggcaagac 240
cgcctctctt cgggcgacta tcacctcaag gatttgtcca aaggcaaagt ctgggtctca 300
gatatcacct caggcctcgt acaaggtggc ggtgcttggt gctgccggtg gcatcgggtca 360
accactgggc ctgctgatca agatgtctcc tctggtctca gagctgcgcc tgtatgatat 420
tgccaatgtc aaggggagtcg ctgcagatct cagccactgc aacacgcctt ctcagggtcat 480
ggacttcact ggcccagcag aactagctga ctgcttgaaa ggtgttgatg ttgtcgtcat 540
ccctgcgggg gtcccaagga agccaggcat gaccctgat gaccttttta acatcaatgc 600
gggcatcgtc aagtcgctta ttgaggctgt tgcagacaac tgccctgagg ccttcatcca 660
tatcatcagc aaccgggtca actccactgt gccgattgct gctgaa 706

<210> 127
<211> 802
<212> DNA
<213> Lolium perenne

<220>
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<222> (11)..(11)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (30)..(30)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (89)..(89)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (242)..(242)
<223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (726)..(726)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (798)..(798)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (801)..(801)
 <223> n is a, c, g, or t

<400> 127
 cctcaaccaa naaaagaaaa gcagctcagn cgcaaggggc gagcccgggc gcacgagcaa 60
 ttcccatctg ctcaccaacc caagttggnc atggcatcag ctgttaccat cagttcggtc 120
 agcgcgcagt ccgctctggt ttcgaaacca aggaatcatg gcagcacgag cttcggtggc 180
 ctaaaggcat catcggcgctc gatcagcttt gaatcagga catcggttctt gggcaagact 240
 gnctccctcc gggcgactgt taccccaagg attgtgcaa aggcaaagtc tgggtctcag 300
 atatcgctc aggcatttta caaggtggcg gtgcttggtg ctgctggtg catcggtcaa 360
 ccactgggcc tgctgatcaa gatgtctcct ctggtctcag agctgcgctt gtatgatatt 420
 gccaatgtca agggcgctgc tgcagatctt agccactgca acacgccttc tcaggatcatg 480
 gacttcactg gccccgcgga actagccgac tgcttgaaag gtgtggatgt tgtcgtcatc 540
 cctgcgggtg tccaaggaa gcctggcatg actcgtgatg accttttta catcaatgcy 600
 ggcacgtca agtcgcttat cgaggctgtt gcagacaact gccctgaggc cttcatccat 660
 atcatcagca acccggtcaa ctccacggtg ccgattgctg ctgagattct gaaacagaag 720
 ggcgtntaca accccaagaa gctcttcggg gtttcaccc tggatgttgt cagagctaac 780
 acattttagt ctcaaaanaa na 802

<210> 128
 <211> 691
 <212> DNA
 <213> Lolium perenne

<220>
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 <222> (8)..(8)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (10)..(10)
 <223> n is a, c, g, or t

<220>
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<222> (14)..(14)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (19)..(19)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (24)..(25)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (31)..(32)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (658)..(658)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (684)..(684)
<223> n is a, c, g, or t

<400> 128
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attcccatct gctcaccaac ccaagttggg catggcatca gctgttacca tcagctcagt 120
cagcgcgcag gccgctttgg tctcgaaacc aaggaatcat ggcagcaca gctacagtgg 180
cctaaaggca tcatcatcgt cgatcagctt cgaatcaggg acatcattcc tgggcaagac 240
cgcctctctt cgggcgacta tcacctcaag gattgtgcc aaggcaaagt ctgggtctca 300
gatatcacct caggcctcgt acaaggtggc ggtgcttggg gctgccggtg gcatcggtca 360
accactgggc ctgctgatca agatgtctcc tctggtctca gagctgcgcc tgtatgatat 420
tgccaatgtc aagggagtcg ctgcagatct cagccactgc aacacgcctt ctcaggatcat 480
ggacttcact ggcccagcag aactagctga ctgcttgaaa ggtgttgatg ttgtcgtcat 540
ccctgcgggt gtcccaagga agccaggcat gaccggtgat gaccttttta acatcaatgc 600
gggcatcgtc aagtcgctta ttgaggctgt tgcagacaac tgccctgagg cttcatnca 660
tatcatcagc aaccgggtca actncactgt g 691

<210> 129
<211> 705
<212> DNA
<213> Lolium perenne

<220>
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<223> n is a, c, g, or t

<220>
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 <222> (17)..(17)
 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

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 <222> (36)..(36)
 <223> n is a, c, g, or t

<220>
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 <222> (217)..(217)
 <223> n is a, c, g, or t

<220>
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 <222> (629)..(629)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (683)..(683)
 <223> n is a, c, g, or t

<400> 129
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 agcgcgcagg ccgctttggt ctcgaaacca aggaatcatg gcagcacaag ctacagtggc 180
 ctaaaggcat catcatcgtc gatcagcttc gaatcangga catcattcct gggcaagacc 240
 gcctctcttc gggcgactat cacctcaagg attgtgccaa aggcaaagtc tgggtctcag 300
 atatcacctc aggcctcgta caaggtggcg gtgcttggtg ctgccggtgg catcgggtcaa 360
 ccactgggcc tgctgatcaa gatgtctcct ctggtctcag agctgcgctt gtatgatatt 420
 gccaatgtca agggagtcgc tgcagatctc agccactgca acacgccttc tcaggtcatg 480
 gacttcactg gccagcaga actagctgac tgcttgaaag gtgttgatgt tgctcgtcatc 540
 cctgcgggtg tctcaaggaa gccaggcatg acccgtgatg acctttttaa catcaatgcg 600
 ggcatcgtca agtcgcttat tgaggctgnt gcagacaact gccctgaggc cttcatccat 660
 atcatcagca acccgggtcaa ctncactgtg ccgattgctg ctgag 705

<210> 130
 <211> 680

<212> DNA
<213> Lolium perenne

<220>
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<223> n is a, c, g, or t

<220>
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<222> (8)..(9)
<223> n is a, c, g, or t

<220>
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<222> (15)..(15)
<223> n is a, c, g, or t

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<222> (21)..(22)
<223> n is a, c, g, or t

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<221> misc_feature
<222> (28)..(28)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (656)..(656)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (680)..(680)
<223> n is a, c, g, or t

<400> 130
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tcccatctgc tcaccaaccc aagttggaga tggcatcagc tgttaccatc agttcagtca 120
gcgcgcaggc cgctttggtc tcgaaaccaa ggaatcatgg cagcacaagc tacagtggcc 180
taaaggcatc atcatcgtcg atcagcttcg aatcagggac atcattcctg ggcaagaccg 240
cctctcttcg ggcgactatc acctcaagga ttgtgccaaa ggcaaagtct gggcttcaga 300
tatcacctca ggcctcgtac aaggtggcgg tgcttggtgc tgccggtggc atcgggtcaac 360
cactgggcct gctgatcaag atgtctcctc tggcttcaga gctgcgcctg tatgatattg 420
ccaatgtcaa gggagtcgct gcagatctca gccactgcaa cacgccttct caggtcatgg 480
acttcactgg cccagcagaa ctagctgact gcttgaaagg tgttgatgtt gtcgtcatcc 540
ctgcgggtgt cccaaggaag ccaggcatga cccgtgatga cctttttaac atcaatgcgg 600
gcatcgtcaa gtcgcttatt gaggctgttg cagacaactg ccctgaggcc ttcatncata 660
tcacagcaa cccggtcacn 680

<210> 131
 <211> 705
 <212> DNA
 <213> Lolium perenne

<220>
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 <222> (6)..(6)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (8)..(9)
 <223> n is a, c, g, or t

<220>
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 <222> (15)..(15)
 <223> n is a, c, g, or t

<220>
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 <222> (21)..(22)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (28)..(28)
 <223> n is a, c, g, or t

<400> 131
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 cccgtctgct caccaaccca agttggagat ggcattcagct gttaccatca gctcagtcag 120
 cgcgcaggcc gctttggtct cgaaaccaag gaatcatggc agcacaagct acagtggcct 180
 aaaggcatca tcattcgtcga tcagcttcga atcagggaca tcattcctgg gcaagaccgc 240
 ctctcttcgg gcgactatca cctcaaggat tgtgccaaag gcaaagtctg ggtctcagat 300
 atcacctcag gcctcgtaca aggtggcggt gcttggtgct gccgggtggca tcggtcaacc 360
 actgggcctg ctgatcaaga tgtctcctct ggtctcagag ctgcgcctgt atgatattgc 420
 caatgtcaag ggagtcgctg cagatctcag ccactgcaac acgccttctc aggtcatgga 480
 cttcactggc ccagcagaac tagctgactg cttgaaaggt gttgatgttg tcgtcatccc 540
 tgcgggtgtc ccaaggaagc caggcatgac ccgtgatgac ctttttaaca tcaatgcggg 600
 catcgtcaag tcgcttattg aggctgttgc agacaactgc cctgaggcct tcatccatat 660
 catcagcaac ccggtcaact ccactgtgcc gattgctgct gagat 705

<210> 132
 <211> 706
 <212> DNA
 <213> Lolium perenne

<220>
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 <222> (6)..(8)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (13)..(13)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (21)..(21)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (27)..(27)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (627)..(627)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (681)..(681)
 <223> n is a, c, g, or t

<400> 132
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 cccatctgct caccaacca agttggagat ggcatacagct gttaccatca gctcagtcag 120
 cgcgcaggcc gctttggtct cgaaaccaag gaatcatggc agcacaagct acagtggcct 180
 aaaggcatca tcatcgtcga tcagcttcga atcagggaca tcattcctgg gcaagaccgc 240
 ctctcttcgg gcgactatca cctcaaggat tgtgccaaag gcaaagtctg ggtctcagat 300
 atcacctcag gcctcgtaca aggtggcggt gcttggtgct gccggtggca tcggtcaacc 360
 actgggcctg ctgatcaaga tgtctcctct ggtctcagag ctgcgcctgt atgatattgc 420
 caatgtcaag ggagtcgctg cagatctcag ccaactgcaac acgccttctc aggtcatgga 480
 cttcactggc ccagcagaac tagctgactg cttgaaaggt gttgatgttg tcgtcatccc 540
 tgcgggtgtc ccaaggaagc caggcatgac ccgtgatgac ctttttaaca tcaatgcggg 600
 catcgtcaag tcgcttattg aggctgntgc agacaactgc cctgaggcct tcatccatat 660
 catcagcaac ccggtcaact nactgtgcc gattgctgct gagata 706

<210> 133
 <211> 634
 <212> DNA
 <213> Lolium perenne

<220>
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<222> (3)..(6)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (19)..(21)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (26)..(27)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (87)..(87)
<223> n is a, c, g, or t

<400> 133
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ccatctgctc accaacccaa gttgggnatg gcatcagctg ttaccatcag ctgagtcagc 120
g'gcgaggccg ctttgggtctc gaaaccaagg aatcatggca gcacaagcta cagtggccta 180
aaggcatcat catcgtcgat cagcttcgaa tcagggacat cattcctggg caagaccgcc 240
tctcttcggg cgactatcac ctcaaggatt gtgccaaagg caaagtctgg gtctcagata 300
tcacctcagg cctcgtacaa ggtggcggtg cttggtgctg ccggtggcat cgggtcaacca 360
ctgggcctgc tgatcaagat gtctcctctg gtctcagagc tgcgcctgta tgatattgcc 420
aatgtcaagg gagtcgctgc agatctcagc cactgcaaca cgccttctca ggtcatggac 480
ttcactggcc cagcagaact agctgactgc ttgaaagggtg ttgatgttgt cgatcatccct 540
gcgggtgtcc caaggaagcc aggcattgacc cgtgatgacc tttttaacat caatgcgggc 600
atcgtcaagt cgcttattga ggctgttgca gaca 634

<210> 134
<211> 758
<212> DNA
<213> Lolium perenne

<220>
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<222> (13)..(13)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (28)..(28)
<223> n is a, c, g, or t

<400> 134
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tcccatctgc tcaccaacct aagttggaga tggcatcagc tgttaccatc agctcagtca 120
gcgcgcaggc cgccttggtc tcgaaaccaa ggaatcatgg cagcacaagc tacagtggcc 180

taaaggcatc atcatcgtcg atcagcttcg aatcagggac atcattcctg ggcaagaccg	240
cctctcttcg ggcgactatc acctcaagga ttgtgccaaa ggcaaagtct gggcttcaga	300
tatcacctca ggcctcgtac aagggtggcgg tgcttggtgc tgccggtggc atcgggtcaac	360
cactgggcct gctgatcaag atgtctcctc tgggtctcaga gctgcgcctg tatgatattg	420
ccaatgtcaa gggagtcgct gcagatctca gccactgcaa cacgccttct cagggtcatgg	480
acttcactgg cccagcagaa ctagctgact gcttgaaagg tgttgatggt gtcgtcatcc	540
ctgcgggtgt cccaaggaag ccaggcatga cccgtgatga cctttttaac atcaatgcgg	600
gcatcgtcaa gtcgcttatt gaggtgttg cagacaactg ccctgaggcc ttcattcata	660
tcattcagcaa cccggtcaac tccactgtgc cgattgtgc tgagattctg aaacagaagg	720
gcgtctacaa cccaagaag ctcttcgggg tttccacc	758

<210> 135
 <211> 761
 <212> DNA
 <213> Lolium perenne

<220>
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 <222> (2)..(2)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (27)..(27)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (607)..(607)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (628)..(628)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (676)..(676)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (688)..(688)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (704)..(704)
 <223> n is a, c, g, or t

<220>

<221> misc_feature
 <222> (716)..(716)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (724)..(725)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (737)..(737)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (746)..(746)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (751)..(751)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (754)..(754)
 <223> n is a, c, g, or t

<400> 135
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 tcccatctgc tcaccaaccc aagttggaga tggcatcagc tgttaccatc agctcagtca 120
 gcgcgcaggc cgctttggtc tcgaaaccaa ggaatcatgg cagcacaagc tacagtggcc 180
 taaaggcatc atcatcgtcg atcagcttcg aatcagggac atcattcctg ggcaagaccg 240
 cctctcttcg ggcgactatc acctcaagga ttgtgccaaa ggcaaagtct gggcttcaga 300
 tatcacctca ggcctcgtac aaggtggcgg tgcttggtgc tgccggtggc atcggtaac 360
 cactgggcct gctgatcaag atgtctcttc tggcttcaga gctgcgcctg tatgatattg 420
 ccaatgtcaa gggagtcgct gcagatctca gccactgcaa cacgccttct cagggtcatgg 480
 acttcactgg cccagctgaa ctagctgact gcttgaaagg tggtgatgtt gtcgtcatcc 540
 ctgcgggtgt cccaaggaag ccaggcatga cccgtgatga cctttttaac atcaatgcgg 600
 gcatcgncaa gtcgcttatt gaggtgntg cagacaactg ccctgaggcc ttcattcata 660
 tcatcagcaa cccggncaac tccactgngc cgattgctgc tganattctg aaacanaagg 720
 gcgnntacaa cccaanaag ctcttngggg nttncaccct g 761

<210> 136
 <211> 772
 <212> DNA
 <213> Lolium perenne

<220>

<221> misc_feature
<222> (2)..(2)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (27)..(28)
<223> n is a, c, g, or t

<400> 136
gnaccagaaa aagaaaaaag agccagnncg caaggggcgga gccggggcgcg acgcagcaat 60
tcccatctgc tcaccaaccc aagttggaga tggcatcagc tgttaccatc agctcagtca 120
gcgcgagggc cgctttgggtc tcgaaaccaa ggaatcatgg cagcacaagc tacagtggcc 180
taaaggcatc atcatcgtcg atcagcttcg aatcaggggac atcattcctg ggcaagaccg 240
cctctcttcg ggcgactatc acctcaagga ttgtgccaaa ggcaaagtct ggggtctcaga 300
tatcacctca ggcctcgtag aaggtggcgg tgcttggtgc tgccgggtggc atcgggtcaac 360
cactgggcct gctgatcaag atgtctcttc tgggtctcaga gctgcgcctg tatgatattg 420
ccaatgtcaa gggagtcgct gcagatctca gccactgcaa cacgccttct cagggtcatgg 480
acttactggt cccagcagaa ctagctgact gcttgaaagg tggtgatggt gtcgtcatcc 540
ctgcgggtgt cccaaggaag ccaggcatga cccgtgatga cctttttaac atcaatgcgg 600
gcatcgtaa gtcgcttatt gaggtgtgtg cagacaactg ccctgaggcc ttcattcata 660
tcacagcaa cccggtcaac tccactgtgc cgattgctgc tgagattctg aaacagaagg 720
gcgtctacaa cccaagaag ctcttcgggg tttccaccct ggatgttggtc aa 772

<210> 137
<211> 772
<212> DNA
<213> Lolium perenne

<220>
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<222> (2)..(2)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (27)..(28)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (772)..(772)
<223> n is a, c, g, or t

<400> 137
gnaccagaaa aagaaaaaag agccagnncg caaggggcgga gccggggcgcg acgcagcaat 60
tcccatctgc tcaccaaccc aagttggaga tggcatcagc tgttaccatc agctcagtca 120
gcgcgagggc cgctttgggtc tcgaaaccaa ggaatcatgg cagcacaagc tacagtggcc 180

taaaggcatc atcatcgtcg atcagcttcg aatcagggac atcattcctg ggcaagaccg	240
cctctcttcg ggcgactatc acctcaagga ttgtgccaaa ggcaaagtct ggggtctcaga	300
tatcacctca ggcctcgtac aagggtggcgg tgcttggtgc tgccggtggc atcgggtcaac	360
cactgggcct gctgatcaag atgtctcctc tgggtctcaga gctgcgccctg tatgatattg	420
ccaatgtcaa gggagtcgct gcagatctca gccactgcaa cacgccttct cagggtcatgg	480
acttcactgg cccagcagaa ctagctgact gcttgaaagg tgttgatggt gtcgtcatcc	540
ctgcgggtgt cccaaggaag ccaggcatga cccgtgatga cctttttaac atcaatgcgg	600
gcatcgtaa gtcgcttatt gaggtgttg cagacaactg ccctgaggcc ttcattcata	660
tcattcagcaa cccggtcaac tccactgtgc cgattgtgc tgagattctg aaacagaagg	720
gcgtctacaa cccaagaag ctcttcgggg tttccaccct ggatgttgtc an	772

<210> 138
 <211> 807
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (2)..(2)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (27)..(28)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (794)..(794)
 <223> n is a, c, g, or t

<400> 138	
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tcccatctgc tcaccaaccc aagttggaga tggcatcagc tgttaccatc agctcagtca	120
gcgcgcaggc cgccttggtc tcgaaaccaa ggaatcatgg cagcacaagc tacagtggcc	180
taaaggcatc atcatcgtcg atcagcttcg aatcagggac atcattcctg ggcaagaccg	240
cctctcttcg ggcgactatc acctcaagga ttgtgccaaa ggcaaagtct ggggtctcaga	300
tatcacctca ggcctcgtac aagggtggcgg tgcttggtgc tgccggtggc atcgggtcaac	360
cactgggcct gctgatcaag atgtctcctc tgggtctcaga gctgcgccctg tatgatattg	420
ccaatgtcaa gggagtcgct gcagatctca gccactgcaa cacgccttct cagggtcatgg	480
acttcactgg cccagcagaa ctagctgact gcttgaaagg tgttgatggt gtcgtcatcc	540
ctgcgggtgt cccaaggaag ccaggcatga cccgtgatga cctttttaac atcaatgcgg	600

gcatcgtaa gtcgttatt gaggtgttg cagacaactg ccctgaggcc ttcattcata	660
tcattcagcaa cccggtcaac tccactgtgc cgattgctgc tgagattctg aaacagaagg	720
gcgtctacaa cccaagaag ctcttcgggg tttccaccct ggatgttgtc agagctaaca	780
catttgtagc tcanaagaag aacctca	807

<210> 139
 <211> 628
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (3)..(3)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (5)..(6)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (12)..(12)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (18)..(19)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (26)..(27)
 <223> n is a, c, g, or t

<400> 139	
canannaaa anaaaaanna cccagnngca ggggagagcc ggggcgcacg cagcaattcc	60
catctgctca ccaacccaag ttggagatgg catcagctgt taccatcagc tcagtcagcg	120
cgcaggccgc tttggtctcg aaaccaagga atcatggcag cacaagctac agtggcctaa	180
aggcaccatc atcgtcgatc agcttcgaat caggacatc attcctgggc aagaccgcct	240
ctcttcgggc gactatcacc tcaaggattg tgccaaaggc aaagtctggg tctcagatat	300
cacctcaggc ctcgtacaag gtggcggtgc ttggtgctgc cgggtggcatc ggtcaaccac	360
tgggcctgct gatcaagatg tctcctctgg tctcagagct gcgcctgtat gatattgcc	420
atgtcaaggg agtcgctgca gatctcagcc actgcaacac gccttctcag gtcattggact	480
tcactggccc agcagaacta gctgactgct tgaaagggtg tgatgttgtc gtcattcctg	540
cgggtgtccc aaggaagcca ggcatgacct atgatgacct ttttaacatc aatgcgggca	600
tcgtcaagtc gcttattgag gctgttgc	628

<210> 140
 <211> 640
 <212> DNA
 <213> Lolium perenne

<220>
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 <222> (3)..(3)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (5)..(6)
 <223> n is a, c, g, or t

<220>
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 <222> (12)..(12)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (18)..(19)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (26)..(27)
 <223> n is a, c, g, or t

<400> 140
 canannaaaa anaaaaanna cccagnngca ggggcgagcc ggggcgcacg cagcaattcc 60
 catctgctca ccaacccaag ttggagatgg catcagctgt taccatcagc tcagtcagcg 120
 cgcaggccgc tttggtctcg aaaccaagga atcatggcag cacaagctac agtggcctaa 180
 aggcattcatc atcgtcgatc agcttcgaat cagggaacatc attcctgggc aagaccgcct 240
 ctcttcgggc gactatcacc tcaaggattg tgccaaaggc aaagtctggg tctcagatat 300
 cacctcaggc ctcgtacaag gtggcggtgc ttggtgctgc cggtggcatc ggtcaaccac 360
 tgggcctgct gatcaagatg tctcctctgg tctcagagct gcgcctgtat gatattgcca 420
 atgtcaaggg agtcgctgca gatctcagcc gctgcaacac gccttctcag gtcattggact 480
 tactggccc agcagaacta gctgactgct tgagaggtgt tgatgttgtc gtcattccctg 540
 cgggtgtccc aaggaagcca ggcattgacc gtgatgacct ttttaacatc aatgcgggca 600
 tcgtcaagtc gcttattgag gctgttgacg acaactgccc 640

<210> 141
 <211> 698
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (3)..(3)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (5)..(6)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (18)..(19)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (25)..(25)

<223> n is a, c, g, or t

<400> 141

canannaaaa acaaaaanna ccagnagcaa ggggcgagcc ggggcgcacg cagcaattcc 60

catctgctca ccaacccaag ttggagatgg catcagctgt taccatcagc tcagtcagcg 120

cgcaggccgc tttggtctcg aaaccaagga atcatggcag cacaagctac agtggcctaa 180

aggcatcatc atcgtcgatc agcttcgaat caggacatc attcctgggc aagaccgcct 240

ctcttcgggc gactatcacc tcaaggattg tgccaaaggc aaagtctggg tctcagatat 300

cacctcaggc ctcgtacaag gtggcggtgt ttggtgctgc cgggtggcatc ggtcaaccac 360

tgggcctgct gatcaagatg tctcctctgg tctcagagct gcgcctgtat gatattgcc 420

atgtcaaggg agtcgctgca gatctcagcc actgcaacac gccttctcag gtcattggact 480

tcactggccc agcagaacta gctgactgct tgaaagggtgt tgatgttgtc gtcattccctg 540

cgggtgtccc aaggaagcca ggcatgaccc gtgatgacct ttttaacatc aatgcgggca 600

tcgtcaagtc gcttattgag gctgttgag acaactgccc tgaggccttc atccatatca 660

tcagcaaccc ggtcaactcc actgtgccga ttgctgct 698

<210> 142

<211> 713

<212> DNA

<213> Lolium perenne

<220>

<221> misc_feature

<222> (3)..(3)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (5)..(6)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (18)..(19)

<223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (21)..(21)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (26)..(26)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (627)..(627)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (655)..(655)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (681)..(681)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (713)..(713)
 <223> n is a, c, g, or t

<400> 142
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 cccatctgct caccaacca agttggagat ggcacagct gttaccatca gctcagtcag 120
 cgcgcaggcc gctttgatct cgaaaccaag gaatcctggc agcacaagct acagtggcct 180
 aaaggcatca tcatcgctga tcagcttcga atcagggaca tcattcctgg gcaagaccgc 240
 ctctcttcgg gcgactatca cctcaaggat tgtgccaaag gcaaagtctg ggtctcagat 300
 atcacctcag gcctcgtaca aggtggcggt gcttggtgct gccggtggca tcggtcaacc 360
 actgggcctg ctgatcaaga tgtctcctct ggtctcagag ctgctcctgt atgatattgc 420
 caatgtcaag ggagtcgctg cagatctcag ccaactgcaac acgccttctc aggtcatgga 480
 cttcactggc ccagcagaac tagctgactg cttgaaagggt gttgatgttg tcgtcatccc 540
 tgcgggtgtc ccaaggaagc caggcatgac ccgtgatgac ctttttaaca tcaatgcggg 600
 catcgtcaag tcgcttattg aggctgntgc agacaactgc cctgaggcct tcatncatat 660
 catcagcaac ccggtcaact nactgtgcc gattgctgct gagattctga aan 713

<210> 143
 <211> 771
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature

<222> (26)..(26)

<223> n is a, c, g, or t

<400> 143

gaccagaaaa	agaaaaaaga	gccagncgca	aggggcgagc	cggggcgcac	gcagcaattc	60
ccatctgctc	accaacccaa	gttgagatg	gcatcagctg	ttaccatcag	ctcagtcagc	120
gcgagggccg	ctttggtctc	gaaaccaagg	aatcatggca	gcacaagcta	cagtggccta	180
aaggcatcat	catcgtcgat	cagcttcgaa	tcagggacat	cattcctggg	caagaccgcc	240
tctcttcggg	cgactatcac	ctcaaggatt	gtgccaaagg	caaagtctgg	gtctcagata	300
tcacctcagg	cctcgtacaa	ggtggcggtg	cttggtgctg	ccggtggcat	cggtaacca	360
ctgggcctgc	tgaccaagat	gtctcctctg	gtctcagagc	tgcgccctgt	tgatattgcc	420
aatgtcaagg	gagtcgctgc	aggtctcagc	cactgcaaca	cgccttctca	ggtcattggac	480
ttcactggtc	cagcagaact	agctgactgc	ttgaaagggt	ttgatgttgt	cgatcatccct	540
gcgggtgtcc	caaggaagcc	aggcatgacc	cgtgatgacc	ttttaacat	caatgcgggc	600
atcgtcaagt	cgcttattga	ggctgttgca	gacaactgcc	ctgaggcctt	catccatatc	660
atcagcaacc	cggtaacttc	cactgtgccg	attgctgctg	agattctgaa	acagaagggc	720
gtctacaacc	ccaagaagct	cttcgggggt	tccaccctgg	atgttgtcag	a	771

<210> 144

<211> 773

<212> DNA

<213> *Lolium perenne*

<220>

<221> misc_feature

<222> (26)..(27)

<223> n is a, c, g, or t

<400> 144

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cccatctgct	caccaacca	agttggagat	ggcatcagct	gttaccatca	gctcagtcag	120
cgcgagggcc	gctttggtct	cgaaaccaag	gaatcatggc	agcacaagct	acagtggcct	180
aaaggcatca	tcacgtcgca	tcagcttcga	atcagggaca	tcattcctgg	gcaagaccgc	240
ctctcttcgg	gcgactatca	cctcaaggat	tgtgccaaag	gcaaagtctg	ggtctcagat	300
atcacctcag	gcctcgtaca	aggtggcggt	gcttggtgct	gccggtggca	tcggtcaacc	360
actgggcctg	ctgatcaaga	tgtctcctct	ggtctcagag	ctgcgcctgt	atgatattgc	420
caatgtcaag	ggagtcgctg	cagatctcag	ccactgcaac	acgccttctc	aggtcatgga	480
cttactggc	ccagcagaac	tagctgactg	cttgaaagggt	gttgatgttg	tcgtcatccc	540
tgcggtgtc	ccaaggaagc	caggcatgac	ccgtgatgac	ctttttaaca	tcaatgcggg	600
catcgtcaag	tcgcttattg	aggctgttgc	agacaactgc	cctgaggcct	tcatccatat	660

catcagcaac ccggtcaact ccactgtgcc gattgctgct gagattctga aacagaaggg	720
cgtctacaac cccaagaagc tcttcggggg ttccaccctg gatgttgta gag	773

<210> 145
 <211> 684
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (2)..(3)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (9)..(9)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (16)..(17)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (22)..(22)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (545)..(545)
 <223> n is a, c, g, or t

<400> 145	
annaaaagna aaaagnnccc gncgcaaggg gcgagccggg gcgcacgcag caattcccat	60
ctgctcacca acccaagttg gggatggcat cagctgttac catcagctca gtcagcgcg	120
aggccgcttt ggtctcgaaa ccaaggaatc atggcagcac aagctacagt ggcctaaagg	180
catcatcatc gtcgatcagc ttcgaatcag ggacatcatt cctgggcaag accgcctctc	240
ttcgggcgac tatcacctca aggattgtgc caaaggcaaa gtctgggtct cagatatcac	300
ctcaggcctc gtacaaggtg gcggtgcttg gtgctgccgg tggcatcggt caaccactgg	360
gcctgctgat caagatgtct cctctggctc cagaactgcg cctgtatgat attgccaatg	420
tcaagggagt cgctgcagat ctcagccact gcaacacgcc ttctcaggtc atggacttcg	480
ctggcccagc agaactagct gactgcttga aaggtgttga tggtgtcgtc atccctgcgg	540
gtgtnccaag gaagccaggc atgaccctg atgacctttt taacatcaat gcgggcatcg	600
tcaagtcgct tattgaggct gttgcagaca actgccctga ggccttcac catatcatca	660
gcaaccgggt caacttcact gtgc	684

<210> 146

<211> 695
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (2)..(2)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (4)..(5)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (10)..(10)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (17)..(18)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (20)..(20)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (25)..(25)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (680)..(680)
 <223> n is a, c, g, or t

<400> 146
 anannaaan caaaaannan ccagnacgca aggggcgagc cggggcgcac gcagcaattc 60
 ccatctgctc accaacccaa gttggagatg gcatcagctg ttaccatcag ctcagtcagc 120
 gcgcaggccg ctttggcttc gaaaccaagg aatcatggca gcacaagcta cagtggccta 180
 aaggcatcat catcgtcgat cagcttcgaa tcagggacat cattcctggg caagaccgcc 240
 tctcttcggg cgactatcac ctcaaggatt gtgccaaagg caaagtctgg gtctcagata 300
 tcacctcagg cctcgtacaa ggtggcggtg cttggtgctg ccggtggcat cgggtcaacca 360
 ctgggcctgc tgatcaagat gtctcctctg gtctcagagc tgcgcctgta tgatattgcc 420
 aatgtcaagg gagtcgctgc agatctcagc cactgcaaca cgccttctca ggtcatggac 480
 ttactggcc cagcagaact agctgactgc ttgaaagggtg ttgatgttgt cgtcatccct 540
 gcgggtgtcc caaggaagcc aggcattgacc cgtgatgacc tttttaacat caatgcgggc 600
 atcgtcaagt cgcttattga ggctgttgca gacaactgcc ctgaggcctt catccatattc 660
 atcagcaacc cgggtcaactn cactgtgccg attgt 695

<210> 147
 <211> 695
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (3)..(4)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (9)..(10)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (16)..(17)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (23)..(23)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (624)..(624)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (678)..(678)
 <223> n is a, c, g, or t

<400> 147
 aannaaaann aaaaannacc agnacgcaag gggcgagccg gggcgcacgc agcaattccc 60
 atctgctcac caaccaagt tggagatggc atcagctggt accatcagct cagtcagcgc 120
 gcaggccgct ttggtctcga aaccaaggaa tcatggcagc acaagctaca gtggcctaaa 180
 ggcatcatca tcgtcgatca gcttcgaatc agggacatca ttcctgggca agaccgcctc 240
 tcttcgggcg actatcacct caaggattgt gccaaaggca aagtctgggt ctcatatc 300
 acctcaggcc tcgtacaagg tggcggtgct tggctgctgcc ggtggcatcg gtcaaccact 360
 gggcctgctg atcaagatgt ctctctggt ctcatagctg cgctgtatg atattgccaa 420
 tgtcaaggga gtcgctgcag atctcagcca ctgcaacacg ccttctcagg tcatggactt 480
 cactggccca gcagaactag ctgactgctt gaaaggtggt gatgttgtcg tcatccctgc 540
 ggggtgtcca aggaagccag gcatgacccg tgatgacctt tttaacatca atgcgggcat 600
 cgtcaagtcg cttattgagg ctgntgcaga caactgccct gaggccttca tccatatcat 660
 cagcaaccg gtcaactnca ctgtgccgat tgctg 695

<210> 148
 <211> 637
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (1)..(3)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (9)..(9)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (15)..(16)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (18)..(18)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (23)..(23)
 <223> n is a, c, g, or t

<400> 148
 nnnaaaaana aaaannancc agnagcaagg ggcgagccgg ggcgcacgca gcaattccca 60
 tctgctcacc aaccaagtt ggagatggca tcagctgtta ccatcagctc agtcagcgcg 120
 caggccgctt tggctcga accaaggaat catggcagca caagctacag tggcctaaag 180
 gcatcatcat cgtcgatcag cttcgaatca gggacatcat tcctgggcaa gaccgcctct 240
 cttcgggcca ctatcacctc aaggattgtg ccaaaggcaa agtctgggtc tcagatatca 300
 cctcaggcct cgtacaaggt ggcggtgctt ggtgctgccg gtggcatcgg tcaaccactg 360
 ggcctgctga tcaagatgtc tcctctggtc tcagagctgc gcctgtatga tattgccaat 420
 gtcaagggag tcgctgcaga tctcagccac tgcaacacgc cttctcaggt catggacttc 480
 actggcccag cagaactagc tgactgcttg aaaggtgttg atgttgtcgt catccctgcg 540
 ggtgtcccaa ggaagccagg catgaccctg gatgaccttt ttaacatcaa tgcgggcatc 600
 gtcaagtcgc ttattgagggc tgttgcagac aactgcc 637

<210> 149
 <211> 675
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (2)..(3)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (8)..(8)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (15)..(16)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (22)..(22)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (623)..(623)

<223> n is a, c, g, or t

<400> 149

annaaaaanca aaaannacca gnacgcaagg ggcgagccgg ggcgcacgca gcaattccca	60
tctgctcacc aacccaagtt ggagatggca tcagctgtta ccatcagctc aatcagcgcg	120
caggccgctt tgggtctcgaa accaaggaat catggcagca caagctacag tggcctaaag	180
gcacatcatc cgtcgatcag cttcgaatca gggacatcat tcctgggcaa gaccgcctct	240
cttcggggcga ctatcacctc aaggattgtg ccaaaggcaa agtctgggtc tcagatatca	300
cctcaggcct cgtacaaggt ggcggtgctt ggtgctgccg gtggcatcgg tcaaccactg	360
ggcctgctga tcaagatgtc tcctctgggtc tcagagctgc gcctgtatga tattgccaat	420
gtcaagggag tcgctgcaga tctcagccac tgcaacacgc cttctcaggt catggacttc	480
actggcccag cagaactagc tgactgcttg aaaggtgttg atgttgctgt catccctgcg	540
ggtgtcccaa ggaagccagg catgaccggt gatgaccttt ttaacatcaa tgcgggcatc	600
gtcaagtcgc ttattgaggc tgntgcagac aactgccctg aggccttcat ccatatcatc	660
agcaacccgg tcaac	675

<210> 150

<211> 764

<212> DNA

<213> Lolium perenne

<220>

<221> misc_feature

<222> (1)..(1)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (720)..(720)

<223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (741)..(741)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (745)..(745)
 <223> n is a, c, g, or t

<400> 150
 nagaaaaaca aaaaagagcc agacgcaagg ggcgagccgg ggcgcacgca gcaattccca 60
 tctgctcacc aacccaagtt ggagatggca tcagctgtta ccatcagctc agtcagcgcg 120
 caggccgctt tggctctgaa accaaggaat catggcagca caagctacag tggcctaaag 180
 gcatcatcat cgtcgatcag cttcgaatca gggacatcat tcctgggcaa gaccgcctct 240
 cttcgggcca ctatcacctc aaggattgtg ccaaaggcaa agtctgggtc tcagatatca 300
 cctcaggcct cgtacaaggc ggcgggtgctt ggtgctgccg gtggcatcgg tcaaccactg 360
 ggcctgctga tcaagatgtc tcctctgggtc tcagagctgc gcctgtatga tattgccaat 420
 gtcaagggag tcgctgcaga tctcagccac tgcaacacgc cttctcaggt catggacttc 480
 actggcccag cagaactagc tgactgcttg aaagggtgtg atgttgctcg catccctgcg 540
 ggtgtcccaa ggaagccagg catgaccctt gatgacctt ttaacatcaa tgcgggcatc 600
 gtcaagtcgc ttattgaggc tgttgagac aactgccctg aggccttcat ccatatcatc 660
 agcaaccgga tcaactccac tgtgccgatt gctgctgaga ttctgaaaca gaacggcgtn 720
 tccaccccaa gaagcttttc ngggnttaca ccctggatgt tgcc 764

<210> 151
 <211> 785
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (393)..(393)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (745)..(745)
 <223> n is a, c, g, or t

<400> 151
 cagaaaaaag aaaagcagcc agacgcaagg ggcgagcccg ggcgcacgag caattcccat 60
 ctgctcacca acccaagttg gacatggcat cagctgttac catcagttcg gtcagcgcg 120
 agtccgctct ggtttcgaaa ccaaggaatc atggcagcac gagcttcggt ggcctaaagg 180
 catcatcggc gtcgatcagc tttgaatcag ggacatcggt cctgggcaag actgcctccc 240
 tccgggagac tgttaccca aggattgtgc caaaggcaaa gtctgggtct cagatatcgc 300

ctcaggcatc ttacaaggtg gcggtgcttg gtgctgctgg tggcatcggt caaccactgg	360
gcctgctgat caagatgtct cctctggtct canagctgcg cctgtatgat attgccaatg	420
tcaagggcgt cgctgcagat cttagccact gcaacacgcc ttctcaggtc atggacttca	480
ctggccccgc ggaactagcc gactgcttga aaggtgtgga tgttgctcgtc atccctgcgg	540
gtgtcccaag gaagcctggc atgactcgtg atgacctttt taacatcaat gcgggcatcg	600
tcaagtcgct tatcgaggct gttgcagaca actgccctga ggccttcac catatcatca	660
gcaacccggt caactccacg gtgccgattg ctgctgagat tctgaaacag aagggcgtct	720
acaaccccaa gaagctcttc ggggnttcca ccctggatgt tgtcagagct aacacatttg	780
tagct	785

<210> 152
 <211> 706
 <212> DNA
 <213> *Lolium perenne*

<220>
 <221> misc_feature
 <222> (2)..(2)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (7)..(7)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (14)..(15)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (21)..(21)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (676)..(676)
 <223> n is a, c, g, or t

<400> 152	
anaaaancaa aaannaccag nacgcaaggg gcgagccggg gcgcacgcag caattcccat	60
ctgctcacca acccaagttg gagatggcat cagctgttac catcagctca gtcagcgcg	120
aggccgcttt ggtctcgaaa ccaaggaatc atggcagcac aagctacagt ggcctaaagg	180
catcatcatc gtcgatcagc ttcgaatcag ggacatcatt cctgggcaag accgcctctc	240
ttcgggcgac tatcacctca aggattgtgc caaaggcaaa gtctgggtct cagatatcac	300
ctcaggcctc gtacaaggtg gcggtgcttg gtgctgccgg tggcatcggt caaccactgg	360

gcctgctgat caagatgtct cctctggtct cagagctgcg cctgtatgat attgccaatg	420
tcaagggagt cgctgcagat ctcagccact gcaacacgcc ttctcaggtc atggacttca	480
ctggcccagc agaactagct gactgcttga aaggtgttga tgttgctcgtc atccctgcgg	540
gtgtcccaag gaagccaggc atgacccgtg atgacctttt taacatcaat gcgggcatcg	600
tcaagtcgct tattgaggct gttgcagaca actgccctga ggccttcac ccatatcatca	660
gcaacccggt caactncact gtgccgattg ctgctgagat tctgaa	706

<210> 153
 <211> 682
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (6)..(8)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (21)..(21)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (538)..(538)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (597)..(598)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (649)..(650)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (679)..(679)
 <223> n is a, c, g, or t

<400> 153	
naacannnaa aaacaaaaaa ngggcgagcc ggggcgcacg cagcaattcc catctgcccc	60
ccaaccaag ttggacatgg catcagctgt caccatcagt tcagtcagcg cccaggccgc	120
tctggtgtca aaaccaagga gtcatggcag cagcagcttc agtggcctga aggcacatc	180
atcgtcgatc agcttcgaat ctggaacatc attcctgggc aagactgcct ctcttcgggc	240
gtcagtcacc ccgaggattg tgccaaaggc aaagtctggg tctcagatat cgcctcaggc	300

atcttacaag gtggcggtgc ttggtgctgc cggtggcatc ggtcaaccac tgggcctgct	360
gatcaagatg tcgcctctgg tctcggagct gcgcctgtat gatattgcga atgtcaaggg	420
cgtcgctgcc gatctcagcc accgcaacac gcctgctcag gtcattggact tcaactggccc	480
cgcggaacta gcagagtgtc tgaaaggcgt ggatgtttgtc gtcattccctg cgggtgtgcc	540
aaggaagcca ggcattgaccc gtgatgacct ttttaacatc aatgcggcat cgtcagngc	600
ttatcgaggc tgttgcagac actgcctgag gccttatcca tattatcann acccgggact	660
gcacggtgcc gattgctgna at	682

<210> 154
 <211> 712
 <212> DNA
 <213> Lolium perenne

<220>
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 <222> (2)..(2)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (8)..(8)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (10)..(11)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (16)..(16)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (525)..(525)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (575)..(575)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (596)..(596)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (601)..(601)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature

<222> (638)..(638)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (665)..(665)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (686)..(686)
<223> n is a, c, g, or t

<400> 154
gnacacanan naaaancaaa aaaggggcca gccggggcgc acacagcaat tcccatctgc 60
ccaccaaccc aagttggaca tggcatcagc tgtcaccatc agttcagtca gcgcccaggc 120
cgctctggtg tcaaaaccaa ggagtcattg cagcacgagc ttcagtggcc tgaaggcatc 180
atcatcgctg atcagcttcg aatctggaac atcattcctg ggcaagactg cctctcttcg 240
ggcgtcagtc accccgagga ttgtgccaaa ggcaaagtct gggctctcaga tatcgccctca 300
ggcatcttac aaggtggcgg tgcttggtgc tgccgggtggc atcgggtcaac cactgggcct 360
gctgatcaag atgtcgccctc tggcctcgga gctgcgcctg tatgatattg cgaatgtcaa 420
gggcgctcgt gccgatctca gccactgcaa cagcctgct caggatcatg acttcactgg 480
ccccgcggaa ctagcagagt gcttgaaagg cgtggatggt gtcgnatccc tgcgggtggt 540
ccaaggaagc caggcatgac ccgtgatgac cttntaaca tcaatgcggg catcgncaag 600
ncgcttatcg aggctgttgc agacaactgc cctgaggnc t gatccatat tatgagaacc 660
ccggncaact ccacggcgcc gattgntgca gagattctga aacagaaggc gt 712

<210> 155
<211> 644
<212> DNA
<213> Lolium perenne

<220>
<221> misc_feature
<222> (11)..(12)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (19)..(19)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (619)..(619)
<223> n is a, c, g, or t

<400> 155
aaacaaaaa nnaccagna gccaaggggc gagccggggc gcacgcagca attcccatct 60
gctcaccaac ccaagttgga gatggcatca gctgttacca tcagctcagt cagcgcgcag 120

gccgctttgg tctcgaaacc aaggaatcat ggcagcacia gctacagtgg cctaaaggca	180
tcattcatcgt cgatcagctt cgaatcaggg acatcattcc tgggcaagac cgcctctctt	240
cgggcgacta tcacctcaag gattgtgcc aaggcaaagt ctgggtctca gatatacct	300
caggcctcgt acaaggtggc ggtgcttggt gctgccggtg gcatcgggtca accactgggc	360
ctgctgatca agatgtctcc tctggtctca gagctgcgcc tgtatgatat tgccaatgtc	420
aaggaggatcg ctgcagatct cagccactgc aacacgcctt ctcagggtcat ggacttctact	480
ggcccagcag aactagctga ctgcttgaaa gggttgatgt tgtcgtcatc cctgcgggtg	540
tcccaaggaa gccaggcatg acccgtgatg acctttttaa catcaatgcg ggcacgtca	600
agtcgcttat tgaggctgnt gcagacaact gccctgaggc cttt	644

<210> 156
 <211> 683
 <212> DNA
 <213> *Lolium perenne*

<220>
 <221> misc_feature
 <222> (2)..(2)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (7)..(7)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (9)..(10)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (23)..(23)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (671)..(671)
 <223> n is a, c, g, or t

<400> 156	
gncacanann aaaaacaaaa aangggcgag ccggggcgca cgcagcaatt cccatctgcc	60
caccaacca agttggacat ggcacagct gtcacatca gttcagtcag cgcccaggcc	120
gctctggtgt caaaaccaag gagtcatggc agcacgagct tcagtggcct gaaggcatca	180
tcacgtcga tcagcttcga atctggaaca tcattcctgg gcaagactgc ctctcttcgg	240
gcgtcagtca ccccgaggat tgtgccaaag gcaaagtctg ggtctcagat atcgccctcag	300
gcatcttaca aggtggcggg gcttggtgct gccggtggca tcggtcaacc actgggcctg	360

ctgatcaaga tgtcgctctt ggtctcggag ctgcgcctgt atgatattgc gaatgtcaag	420
ggcgtcgctg ccgatctcag ccaactgcaac acgcctgctc aggtcatgga cttcactggc	480
cccgcggaac tagcagagtg cttgaaaggc gtggatgttg tcgtcatccc tgcgggtgtc	540
ccaaggaagc caggcatgac ccgtgatgac ctttttaaca tcaatgcggg catcgtcaag	600
tcgcttatcg aggctgttgc agacaactgc cctgaggcct tcatccatat tatcagcaac	660
ccggtcaact ncacggtgcc gat	683

<210> 157
 <211> 695
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (3)..(3)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (8)..(8)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (10)..(11)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (17)..(17)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (24)..(24)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (550)..(550)
 <223> n is a, c, g, or t

<400> 157	
gancccanan naaaaanaaa aaangggcga gccggggcgc acgcagcaat tcccatctgc	60
ccaccaaccc aagttggaca tggcatcagc tgtcaccatc agttcagtca gcgcccaggc	120
cgctctggtg tcaaaaccaa ggagtcattg cagcacgagc ttcagtggcc tgaaggcatc	180
atcatcgtcg atcagcttcg aatctggaac atcattcctg ggcaagactg cctctcttcg	240
ggcgtcagtc accccgagga ttgtgccaaa ggcaaagtct ggggtctcaga tatcgcccta	300
ggcatcttac aagggtggcg tgcttggtgc tgccggtggc atcgggtcaac cactgggcct	360
gctgatcaag atgtcgctc tgggtctcga gctgcgcctg tatgatattg cgaatgtcaa	420

gggcgctcgct gccgatctca gccactgcaa cacgcctgct ctggatcatgg acttcactgg	480
ccccgcggaa ctagcagagt gcttgaaagg cgtggatggt gtcgcatcc ctgcgggtgt	540
cccaaggaan ccaggcatga cccgtgatga ctttttaac atcaatgcgg gcatcgtcaa	600
gtcgcttatc gaggctgttg cagacaactg ccctgaggcc ttcattcata ttatcagcaa	660
cccggtcaac tccacggtgc cgattgctgc agaga	695

<210> 158
 <211> 802
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (12)..(12)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (89)..(89)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (740)..(740)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (773)..(773)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (780)..(780)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (783)..(783)
 <223> n is a, c, g, or t

<400> 158	
gaccagaaaa angaaaaaag gggcgagccg gggcgcacgc agcaattccc atctgcccac	60
caaccgaagt tggacatggc atcagctgnc accatcagtt cagtcagcgc ccaggccgct	120
ctgggtgtcaa aaccaaggag tcatggcagc acgagcttca gtggcctgaa ggcattcatca	180
tcgtcgatca gcttcgaatc tggaacatca ttcttgggca agactgcctc tcttcgggag	240
tcagtcaccc cgaggattgt gccaaaggca aagtctgggt ctcagatatc gcctcaggca	300
tcttacaagg tgggtggtgct tgggtgctgct ggtggcatcg gtcaaccact gggcctgctg	360
atcaagatgt ctctctggt ctcagagctg cgctgtatg atattgcca tgtcaagggc	420
gtcgctgcag atcttagcca ctgcaacacg ctttctcagg tcatggactt cactggcccc	480

gcggaactag ccgactgctt gaaagggtgtg gatgttgctg tcatccctgc ggggtgtccca	540
aggaagcctg gcatgactcg tgatgacctt tttaacatca atgcgggcat cgtcaagtcg	600
cttatcgagg ctgttgacaga caactgccct gaggccttca tccatatcat cagcaacccg	660
gtcaactcca cggtgccgat tgctgctgag attctgaaac agaagggcgt ctacaacccc	720
aagaagctct tcgggggttn caccctggat gttgtcagag ctaacacatt tgnagctcan	780
aanaagaacc tcagtcttat cg	802

<210> 159
 <211> 637
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (4)..(4)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (10)..(11)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (18)..(19)
 <223> n is a, c, g, or t

<400> 159	
aaanaaaan naccagnng caaggggcca gccggggcgc acgcagcaat tcccatctgc	60
tcaccaaccc aagttggaga tggcatcagc tgttaccatc agctcagtca gcgcgcaggc	120
cgctttggtc tcgaaaccaa ggaatcatgg cagcacaagc tacagtggcc taaaggcatc	180
atcatcgtcg atcagcttcg aatcaggggac atcattcctg ggcaagaccg cctctcttcg	240
ggcgactatc acctcaagga ttgtgccaaa ggcaaagtct ggggtctcaga tatcacctca	300
ggcctcgtac aaggtggcgg tgcttggtgc tgccggtggc atcgggtcaac cactgggcct	360
gctgatcaag atgtctcctc tgggtctcaga gctgcgcctg tatgatattg ccaatgtcaa	420
gggagtcgct gcagatctca gccactgcaa cagccttct caggatcatg acttcactgg	480
cccagcagaa ctagctgact gcttgaaagg tgttgatgtt gtcgtcatcc ctgcgggtgt	540
ccaaggaag ccagacaact gccctgaggc cttcatccat atcatcagca acccggtcaa	600
ctccactgtg ccgattgctg ctgagatcta aacagaa	637

<210> 160
 <211> 686
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (3)..(3)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (11)..(12)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (18)..(18)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (673)..(673)
 <223> n is a, c, g, or t

<400> 160
 aanccaaaaa nnaccagnac gcagggggcg agccggggcg cacgcagcaa ttcccatctg 60
 ctcaccaacc caagttggag atggcatcag ctgttaccat cagctcagtc agcgcgcagg 120
 ccgctttggt ctcgaaacca aggaatcatg gcagcacaag ctacagtggc ctaaaggcat 180
 catcatcgtc gatcagcttc gaatcaggga catcattcct gggcaagacc gcctctcttc 240
 gggcgactat cacctcaagg attgtgcca aggcaaagtc tgggtctcag atatcacctc 300
 aggcctcgta caaggtggcg gtgcttggtg ctgccggtgg catcggtcaa ccaactgggcc 360
 tgctgatcaa gatgtctcct ctggtctcag agctgcgcct gtatgatatt gccaatgtca 420
 agggagtcgc tgcagatctc agccactgca acacgccttc tcaggtcatg gacttcactg 480
 gcccagcaga actagctgac tgcttgaaag gtgttgatgt tgtcgtcatc cctgcgggtg 540
 tccaaggaa gccaggcatg acccgtgatg acctttttaa catcaatgcg ggcacgtca 600
 agtcgcttat tgaggctggt gcagacaact gccctgaggc cttcatccat atcatcagca 660
 acccgggtcaa ctncactgtg ccgatt 686

<210> 161
 <211> 693
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (11)..(11)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (17)..(17)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature

<222> (672)..(672)
<223> n is a, c, g, or t

<400> 161
aaacaaaaaa naccagnacg caaggggcgga gccggggcggc acgcagcaat tcccatctgc 60
tcaccaaccc aagttggaga tggcatcagc tgttaccatc agctcagtca gcgcgcaggc 120
cgctttggtc tcgaaaccaa ggaatcatgg cagcacaagc tacagtggcc taaaggcatc 180
atcatcgtcg atcagcttcg aatcagggac atcattcctg ggcaagaccg cctctcttcg 240
ggcgactatc acctcaagga ttgtgccaaa ggcaaagtct ggggtctcaga tatcacctca 300
ggcctcgtac aaggtggcgg tgcttggtgc tgccggtggc atcgggtcaac cactgggcct 360
gctgatcaag atgtctcctc tgggtctcaga gctgcgcctg tatgatattg ccaatgtcaa 420
gggagtcgct gcagatctca gccactgcaa cacgccttct cagggtcatgg gcttcactgg 480
cccagcagaa ctagctgact gcttgaaagg tgttgatgtt gtcgtcatcc ctgcgggtgt 540
cccaaggaag ccaggcatga cccgtgatga cttttttaac atcaatgcgg gcacgtcgtcaa 600
gtcgcttatt gaggtgttg cagacaactg ccctgaggcc ttcattccata tcatcagcaa 660
cccgggtcaac tncactgtgc cgattgctgc tgc 693

<210> 162
<211> 647
<212> DNA
<213> *Lolium perenne*

<220>
<221> misc_feature
<222> (6)..(6)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (8)..(9)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (15)..(15)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (17)..(17)
<223> n is a, c, g, or t

<400> 162
cacaananna aaaananaaa aggggcgagc cggggcgcac gcagcaattc ccatctgccc 60
accaacccaa gttggacatg gcacagctg tcaccatcag ttcagtcagc gccaggccg 120
ctctgggtgtc aaaaccaagg agtcatggca gcacgagctt cagtggcctg aaggcatcat 180
catcgtcgat cagcttcgaa tctggaacat cattcctggg caagactgcc tctcttcggg 240

cgtcagtcac	cccgaggatt	gtgccaaagg	caaagtctgg	gtctcagata	tcgcctcagg	300
catcttacia	ggtggcggtg	cttggtgctg	ccggtggcat	cggtcaacca	ctgggcctgc	360
tgatcaagat	gtcgctctctg	gtctcggagc	tgcgcttgta	tgatattgcg	aatgtcaagg	420
gcgctcgctgc	cgatctcagc	cactgcaaca	cgcttgctca	ggatcatggac	ttcactggcc	480
ccgcggaact	agcagagtgc	ttgaaaggcg	tggatgttgt	cgatcatccct	gcgggtgtcc	540
caaggaagcc	aggcatgacc	cgtgatgacc	tttttaacat	caatgcgggc	atcgtcaagt	600
cgcttatcga	ggctgttgca	gacaactgcc	ctgaggcctt	catccat		647

<210> 163
 <211> 661
 <212> DNA
 <213> *Lolium perenne*

<220>
 <221> misc_feature
 <222> (3)..(4)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (10)..(11)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (17)..(17)
 <223> n is a, c, g, or t

<400> 163		
aannaaaaan	naccagnacg	cagggggcga gccggggcgc acgcagcaat tcccatctgc 60
tcaccaaccc	aagttggaga	tggcatcagc tgttaccatc agctcagtca gcgcgcaggc 120
cgctttggtc	tcgaaaccaa	ggaatcatgg cagcacaagc tacagtggcc taaaggcatc 180
atcatcgtcg	atcagcttcg	aatcagggac atcattcctg ggcaagaccg cctctcttcg 240
ggcgactatc	acctcaagga	ttgtgccaaa ggcaaagtct gggctctcaga tatcacctca 300
ggcctcgtac	aaggtggcgg	tgcttggtgc tgccgggtggc atcgggtcaac cactgggcct 360
gctgatcaag	atgtctcctc	tggctctcaga gctgcgcctg tatgatattg ccaatgtcaa 420
gggagtcgct	gcagatctca	gccactgcaa cagccttctt caggatcatgg acttcactgg 480
cccagcagaa	ctagctgact	gcttgaaagg tggtgatgtt gtcgcatcc ctgcgggtgt 540
cccaaggaag	ccaggcatga	cccgtgatga ctttttaac atcaatgcgg gcacgtctaa 600
gtcgcttatt	gaggctgttg	cagacaactg ccctgaggcc ttcatccata tcatcagcaa 660
c		661

<210> 164
 <211> 640

<212> DNA
<213> Lolium perenne

<220>
<221> misc_feature
<222> (2)..(4)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (7)..(7)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (13)..(13)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (18)..(18)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (20)..(20)
<223> n is a, c, g, or t

<400> 164
gnnnaanaaaa aanaaaanan gggcgagccg gggcgcacgc agcaattccc atctgcccac 60
caacccaagt tggacatggc atcagctgtc accatcagtt cagtcagcgc ccaggccgct 120
ctggtgtcaa aaccaaggag tcatggcagc acgagcttca gtggcctgaa ggcatcatca 180
tcgtcgatca gcttcgaatc tggaacatca ttcttgggca agactgcctc tcttcggggc 240
tcagtcaccc cgaggattgt gccaaaggca aagtctgggt ctcagatata gcctcaggca 300
tcttacaagg tggcgggtgct tgggtgctgcc ggtggcatcg gtcaaccact gggcctgctg 360
atcaagatgt cgcctctggt ctcggaagctg cgcctgtatg atattgcgaa tgtcaagggc 420
gtcgctgccg acctcagcca ctgcaacacg cctgctcagg tcatggactt cactggcccc 480
gcggaactag cagagtgtt gaaaggcgtg gatgttgtcg tcatccctgc ggggtgtcca 540
aggaagccag gcatgacccg tgatgacctt tttaacatca atgcgggcat cgtcaagtcg 600
cttatcgagg ctgttgacaga caactgccct gaggccttca 640

<210> 165
<211> 681
<212> DNA
<213> Lolium perenne

<220>
<221> misc_feature
<222> (3)..(3)
<223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (5)..(6)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (19)..(19)
 <223> n is a, c, g, or t

<400> 165
 canannaaaa acaaaaaaang ggcgagccgg ggcgcacgca gcaattccca tctgcccacc 60
 aacccaagtt ggacatggca tcagctgtca ccatcagttc agtcagcgcc caggccgctc 120
 tgggtgtcaaa accaaggagt catggcagca cgagcttcag tggcctgaag gcatcatcat 180
 cgctgatcag cttcgaatct ggaacatcat tcctgggcaa gactgcctct cttcgggcgt 240
 cagtcacccc gaggattgtg ccaaaggcaa agtctgggtc tcagatatcg cctcaggcat 300
 cttacaaggt ggcggtgctt ggtgctgccg gtggcatcgg ttaaccactg ggcctgctga 360
 tcaagatgtc gcctctgggtc tcggagctgc gcctgtatga tattgcgaat gtcaaggggc 420
 tcgctgccga tctcagccac tgcaacacgc ctgctcaggt catggacttc actggccccc 480
 cggaactagc agagtgttg aaaggcgtgg atgttgctgt catccctgcg ggtgtcccaa 540
 ggaagccagg catgaccctg gatgaccttt ttaacatcaa tgcgggcata gtcaagtcgc 600
 ttatcgaggc tgttgcagac aactgccctg aggccttcat ccatattatc agcaaccg 660
 tcaactccac ggtgccgatt g 681

<210> 166
 <211> 741
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (2)..(2)
 <223> n is a, c, g, or t

<400> 166
 gnaccagaaa aagaaaaaaa ggggagccgg ggggcgcacg cagcaattcc catctgccc 60
 ccaaccaag ttggacatgg catctgctgt caccatcagt tcagtcagcg cccaggccgc 120
 tctggtgtca aaaccaagga gtcatggcag cagcagcttc agtggcctga aggcatcatc 180
 atcgctgatc agcttcgaat ctggagcatc attcctgggc aagactgcct ctcttcgggc 240
 gtcagtcacc ccgaggattg tgccaaaggc aaagtctggg tctcagatat cgcctcaggc 300
 atctcacaag gtggcggtgc ttggtgctgc cgggtggcatc ggtcaaccac tgggcctgct 360
 gatcaagatg tcgcctctgg tctcggagct gcgcctgtat gatattgcga atgtcaagg 420
 cgctcgtgcc gatctcagcc actgcaacac gcctgctcag gtcattggact tcaactggccc 480

cgcggaacta gcagagtgct tgaaaggcgt ggatgttgct gtcattccctg cgggtgtccc	540
aaggaagcca ggcattgaccc gtgatgacct ttttaacatc aatgcgggca tcgtcaagtc	600
gcttatcgag gctgttgacg acaactgccc tgaggccttc atccatatta tcagcaaccc	660
ggtcaactcc acggtgccga ttgctgcaga gattctgaaa cagaaggcg tctacaaccc	720
caagaagctc ttcggggttt c	741

<210> 167
 <211> 665
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (3)..(6)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (11)..(11)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (22)..(22)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (614)..(614)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (664)..(664)
 <223> n is a, c, g, or t

<400> 167	
cannnnaaaa ncaaaaaagg gnacgagccg gggcgacgc agcaattccc atctgcccac	60
caacccaagt tggacatggc atcagctgtc accatcagtt cagtcagcgc ccaggccgct	120
ctggtgtcaa aaccaaggag tcatggcagc acgagcttca gtggcctgaa ggcattcatca	180
tcgtcgatca gcttcgaatc tggaacatca ttcctgggca agactgcctc tcttcgggcg	240
tcagtcaccc cgaggattgt gccaaaggca aagtctgggt ctcagatata gcctcaggca	300
tcttacaagg tggcggtgct tgggtgctgcc ggtggcatcg gtcaaccact gggcctgctg	360
atcaagatgt cgcctctggt ctcggagctg cgcctgtatg atattgcgaa tgtcaagggc	420
gtcgctgccg atctcagcca ctgcaacacg cctgctcagg tcatggactt cactggcccc	480
gcggaactag cagagtgtt gaaaggcgtg gatgttgctg tcatccctgc ggggtgtccc	540
aggaagccag gcatgaccg tgatgacctt ttttaacatca atgcgggcat cgtcaagtcg	600
cttatcgagg ctgntgcaga caactgccct gaggccttca tccatattat cagcaaccg	660

<210> 168
 <211> 680
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (3)..(3)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (5)..(6)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (12)..(12)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (14)..(14)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (19)..(19)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (667)..(667)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (680)..(680)
 <223> n is a, c, g, or t

<400> 168
 canannaaaa ananaaaang ggcgagccgg ggcgcacgca gcaattccca tctgcccacc 60
 aacccaagtt ggacatggca tcagctgtca ccatcagttc agtcagcgcc caggccgctc 120
 tgggtgtcaaa accaaggagt catggcagca cgagcttcag tggcctgaag gcatcatcat 180
 cgtcgatcag cttcgaatct ggaacatcat tcctgggcaa gactgcctct cttcgggctg 240
 cagccacccc gaggattgtg ccaaaggcaa agtctgggtc tcagatatcg cctcaggcat 300
 cttacaaggt ggcggtgctt ggtgctgccg gtggcatcgg tcaaccactg ggcctgctga 360
 tcaagatgtc gcctctgggtc tcggagctgc gcctgtatga tattggaat gtcaagggcg 420
 tcgctgccga tctcagccac tgcaacacgc ctgctcaggt catggacttc actggccccg 480
 cggaactagc agagtgttg aaaggcgtgg atgttgctgt catccctgcg ggtgtcccaa 540

ggaagccagg catgaccctgt gatgaccttt ttaacatcaa tgcgggcatc gtcaagtcgc	600
ttatcgaggc tgttgcagac aactgccctg aggccttcat ccatattatc agcaaccccg	660
tcaactncac ggtgccgatn	680

<210> 169
 <211> 770
 <212> DNA
 <213> Lolium perenne

<400> 169	
gaccagaaaa agaaaaaaag gggcgagccg gggcgcacgc agcaattccc atctgcccac	60
caacccaagt tggacatggc atcagccgtc accatcagtt cagtcagcgc ccaggccgct	120
ctggtgtcaa aaccaaggag tcatggcagc acgagcttca gtggcctgaa ggcacatca	180
tgcgtgatca gcttcgaatc tggaaacatca ttcctgggca agactgcctc tcttcgggcg	240
tcagtcaccc cgaggattgt gccaaaggca aagtctgggt ctcagatata gcctcaggca	300
tcttacaagg tggcgggtgt tgggtgtgcc ggtggcatcg gtcaaccact gggcctgctg	360
atcaagatgt cgcctctggt ctcggagctg cgcctgtatg atattgcgaa tgtcaagggc	420
gtcgtgtccg atctcagcca ctgcaacacg cctgctcagg tcatggactt cactggcccc	480
gcggaactag cagagtgttt gaaaggcgtg gatgttgtcg tcatccctgc ggggtgtccca	540
aggaagccag gcatgaccctg tgatgacctt ttaacatca atgcgggcat cgtcaagtcg	600
cttatcgagg ctgttgcaga caactgccct gaggccttca tccatattat cagcaacccg	660
gtcaactcca cggtgccgat tgctgcagag attctgaaac agaagggcgt ctacaacccc	720
aagaagctct tcgggggtttc caccctggat gttgtcaggg ctaacacatt	770

<210> 170
 <211> 702
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (2)..(2)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (4)..(5)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (11)..(11)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (18)..(18)

<223> n is a, c, g, or t

<400> 170
anannaaaaa naaaaaangg gcgagccggg ggcacgcag caattcccat ctgcccacca 60
acccaagttg gacatggcat cagctgtcac catcagttca gtcagcgccc aggccgctct 120
ggtgtcaaaa ccaaggagtc atggcagcac gagcttcagt ggcctgaagg catcatcatc 180
gtcgatcagc ttcgaatctg gaacatcatt cctgggcaag actgcctctc ttcgggcgtc 240
agtcaccccg aggattgtgc caaaggcaaa gtctgggtct cagatatcgc ctcaggcatc 300
ttacaaggtg gcggtgcttg gtgctgccgg tggcatcggt caaccactgg gcctgctgat 360
caagatgtcg cctctggtct cggagctgcg cctgtatgat attgcgaatg tcaagggcgt 420
cgctgccgat ctcagccact gcaacacgcc tgctcagggtc atggacttca ctggccccgc 480
ggaactagca gagtgcttga aaggcgtgga tgttgtcgtc atccctgcgg gtgtcccaag 540
gaagccaggc atgaccctg atgacctttt taacatcaat gcgggcatcg tcaagtcgct 600
tatcgaggct gttgcagaca actgccctga ggccttcac catattatca gcaaccgggt 660
caactccacg gtgccgattg ctgcagagat tctgaaacag ag 702

<210> 171
<211> 777
<212> DNA
<213> Lolium perenne

<400> 171
cagaaaaaga aaaaaagggg cgagccgggg cgcacgcagc aattcccatc tgcccaccaa 60
cccaagttgg acatggcatc agctgtcacc atcagttcag tcagcgcca ggccgctctg 120
gtgtcaaaac caaggagtca tggcagcacg agcttcagtg gcctgaaggc atcatcatcg 180
tcgatcagct tcgaatctgg aacatcattc ctgggcaaga ctgcctctct tcgggcgtca 240
gtcaccccgga ggattgtgcc aaaggcaaaag tctgggtctc agatatcgcc tcaggcatct 300
tacaaggtgg cggtgcttgg tgctgccggg ggcacgcgtc aaccactggg cctgctgata 360
aagatgtcgc ctctggtctc ggagctgcgc ctgtatgata ttgcgaatgt caagggcgtc 420
gctgccgatc tcagccactg caacacgcct gctcagggtc tggacttcac tggccccgcg 480
gaactagcag agtgcttgaa aggcgtggat gttgtcgtca tccctgcggg tgtcccaagg 540
aagccaggca tgaccctgga tgaccttttt aacatcaatg cgggcatcgt caagtcgctt 600
atcgaggctg ttgcagacaa ctgccctgag gccttcaccc atattatcag caaccgggtc 660
aactccacgg tgccgattgc tgacagagatt ctgaaacaga agggcgtcta caacccaag 720
aagctcttcg gggtttcccc cctggatgtt gtcagggtc acacatttgt agtcaa 777

<210> 172
<211> 707
<212> DNA

<213> Lolium perenne

<220>

<221> misc_feature

<222> (8)..(8)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (11)..(11)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (659)..(659)

<223> n is a, c, g, or t

<400> 172

aaaaaaanaa ngggcgagcc ggggcgcacg cagcaattcc catctgccca ccaacccaag	60
ttggacatgg catcagctgt caccatcagt tcagtcagcg cccaggccgc tctggtgtca	120
aaaccaagga gtcatggcag cacgagcttc agtggcctga aggcacatc atcgctgatc	180
agcttcgaat ctggaacatc attcctgggc aagactgcct ctcttcgggc gtcagtcacc	240
ccgaggattg tgccaaaggc aaagtctggg tctcagatat cgctcaggc atcttacaag	300
gtggcggtgc ttggtgctgc cggtggcatc ggtcaaccac tgggcctgct gatcaagatg	360
tcgcctctgg tctcggagct gcgcctgtat gatattgcga atgtcaaggg cgctcgctgcc	420
gatctcagcc actgcaacac gcctgctcag gtcatggact tctactggccc cgcggaacta	480
gcagagtgtc tgaaaggcgt ggatgtttgc gtcatccctg cgggtgtccc aaggaagcca	540
ggcatgaccc gtgatgacct ttttaacatc aatgcgggca tcgtcaagtc gcttatcgag	600
gctgttgtag acaactgccc tgaggccttc atccatatta tcagcaaccc ggtcaactnc	660
acggtgccga ttgctgcaga gattctgaaa caaaaggcgt ctacaac	707

<210> 173

<211> 687

<212> DNA

<213> Lolium perenne

<220>

<221> misc_feature

<222> (3)..(4)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (11)..(11)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (571)..(571)

<223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (605)..(605)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (655)..(655)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (665)..(665)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (674)..(674)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (680)..(680)
 <223> n is a, c, g, or t

<400> 173
 aannaaaaa ngggcgagcc ggggcgcacg cagcaattcc catctgcca ccaacccaag 60
 ttggacatgg catcagctgt caccatcagt tcagtcagcg cccaggccgc tctggtgtca 120
 aaaccaagga gtcattggcag cacgagcttc agtggcctga aggcattcatc atcgctcgatc 180
 agcttcgaat ctggaacatc attcctgggc aagactgcct ctcttcgggc gtcagtcacc 240
 ccgaggattg tgccaaaggc aaagtctggg tctcagatat cgcctcaggc atcttacaag 300
 gtggcggtgc ttggtgctgc cgggtggcatc ggtcaaccac tgggcctgct gatcaagatg 360
 tcgcctctgg tctcggagct gcgcccgtat gataatgcga atgtcaaggg cgtcgctgcc 420
 gatctcagcc actgcaacac gcctgctcag gtcattggact tcaactggccc cgcggaacta 480
 gcagagtgct tgaaaggcgt ggatgctgtc gtcattccctg cgggtgtccc aaggaagcca 540
 ggcatgacct gtgatgacct ttttaacatc natgcgggca tcgtcaagtc gcttatcgag 600
 gctgntgcag acaactgccc tgaggccttc atccatatta tcagcaaccc ggtcnactcc 660
 acgnggccga ttgntgcaan attttgc 687

<210> 174
 <211> 473
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (211)..(211)
 <223> n is a, c, g, or t

<220>

<221> misc_feature
 <222> (258)..(258)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (354)..(355)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (369)..(369)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (397)..(397)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (421)..(422)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (441)..(441)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (445)..(445)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (461)..(461)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (465)..(465)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (468)..(468)
 <223> n is a, c, g, or t

<400> 174
 caaggggcga gccggggcgc acgcagcaat tcccatctgc tcaccaaccc aagttggaga 60
 tggcatcagc tgttaccatc agctcagtca gcgcgcaggc cgctttgggtc tcgaaaccaa 120
 ggaatcatgg cagcacaagc tacagtggcc taaaggcatc atcatcgtcg atcagcttcg 180
 aatcagggcc atcattcctg gacaagaccg nctctcttcg ggcgactatc acctcaagga 240
 ttgtgccaaa ggcaaagnct ggggtctcaga tatcacctca ggcctcgtac aaggtggcgg 300
 tgcttggtgc tgccggtggc atcgggtcaac cactgggcct gctgatcaag atgnntcctc 360
 tgggtctcana gctgcgcctg tatgatattg ccaatgncaa gggagtcgct gcaaattctca 420

nncactgcaa cacgccttct naggncatgg acttcactgg nccancanaa cta

473

<210> 175
 <211> 642
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (2)..(2)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (9)..(10)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (38)..(38)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (478)..(478)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (641)..(641)
 <223> n is a, c, g, or t

<400> 175	
anaggggcn gcccgggagc gcggaattcc atctgccncc accaagttgg acatggcatc	60
agctgtacca tcagttagta ggcgccaggg cgctctggtg taaaaccaag gagtcatggc	120
agcacgagct tcagtggcct gaaggcatca tcatcgctga tcagcttcga atctggaaca	180
tcattcctgg gcaagactgc ctctcttcgg gcgtcagtca ccccgaggat tgtgccaag	240
gcaaagtctg ggtctcagat atcgccctcag gcatcttaca aggtggcggt gcttggtgct	300
gctggtggca tcggtcaacc actgggcctg ctgatcaaga tgtctcctct ggtctcagag	360
ctgcgcctgt atgatattgc caatgtcaag ggcgtcgctg cagatcttag ccatgcaac	420
acgccttctc aggtcatgga cttcactggc cccgcggaac tagccgactg cttgaaangt	480
gtggatgttg tcgtcatccc tgcgggtgtc ccaaggaagc ctggcatgac tcgtgatgac	540
ctttttaaca tcaatgcggg catcgccaag tcgcttatca aggctgttgc agacaactcc	600
cttgaggcct tcatccatat catcagcaac ccggtcaact nc	642

<210> 176
 <211> 767
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (12)..(12)
 <223> n is a, c, g, or t

<400> 176
 ggagccgggg cncgcgagca attcccatct gctcaccaac ccaagttgga gatggcatca 60
 gctgtttacca tcagctcagt cagcgcgcag gccgcttttg tctcgaaacc aaggaatcat 120
 ggcagcaciaa gctacagtgg cctaaaggca tcatcatcgt cgatcagctt cgaatcaggg 180
 acatcattcc tgggcaagac cgcctctctt cgggcgacta tcacctcaag gattgtgcca 240
 aaggcaaagt ctgggtctca gatatcacct caggcctcgt acaagggtggc ggtgcttggt 300
 gctgccggtg gcatcggtca accactgggc ctgctgatca agatgtctcc tctggtctca 360
 gagctgcgcc tgtatgatat tgccaatgtc aaggggagtcg ctgcagatct cagccactgc 420
 aacacgcctt ctcagggtcat ggacttcact ggcccagcag aactagctga ctgcttgaaa 480
 ggtgttgatg ttgtcgtcat ccctgcgggt gtcccaagga agccaggcat gacccgtgat 540
 gaccttttta acatcaatgc gggcatcgtc aagtcgctta ttgaggctgt tgcagacaac 600
 tgccctgagg cttcatcca tatcatcagc aaccgggtca actccactgt gccgattgct 660
 gctgagattc tgaaacagaa gggcgtctac aacccaaga agctcttcgg ggtttccacc 720
 ctggatgttg tcagagctaa cacatttgta gctcagaaga agaacct 767

<210> 177
 <211> 701
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (637)..(637)
 <223> n is a, c, g, or t

<400> 177
 gggggcgcac gcacaattcc catctgctca ccaaccatt ggagatggca tcagctgtta 60
 ccatcagctc agtcagcgcg caggccgctt tgggtctgaa accaaggaat catggcagca 120
 caagctacag tggcctaaag gcatcatcat cgtcgatcag cttcgaatca gggacatcat 180
 tcctgggcaa gaccgcctct cttcgggcga ctatcacctc aaggattgtg ccaaaggcaa 240
 agtctgggtc tcagatatca ccccaggcct cgtacaagggt ggcgggtgctt ggtgctgccg 300
 gtggcatcgg tcaaccactg ggcctgctga tcaagatgtc tcctctggtc tcagagctgc 360
 gcctgtatga tattgccaat gtcaaggag tcgctgcaga tctcagccac tgcaacacgc 420
 cttctcaggt catggacttc actggcccag cagaactagc tgactgcttg aaagggtgtt 480
 atgttgctgt catccctgcg ggtgtcccaa ggaagccagg catgaccctg gatgaccttt 540
 ttaacatcaa tgcgggcatc gtcaagtcgc ttattgaggc tgttgcagac aactgccctg 600

aggccttcat ccatatcatc agcaacccgg tcaactncac tgtgccgatt gctgctgaga	660
ttctgaaaca gaagggcgtc tacagcccca agaagctctt a	701

<210> 178
 <211> 333
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (17)..(17)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (33)..(33)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (281)..(281)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (293)..(293)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (297)..(297)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (303)..(303)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (327)..(327)
 <223> n is a, c, g, or t

<400> 178	
ncagcagcaa ttccctnctg cccaccaacc canttggaca tggcatcagc tgtcaccatc	60
agttcagtca gcgcccaggc cgctctggtg tcaaaaccaa ggagtcattg cagcacgagc	120
ttcagtggcc tgaaggcatc atcatcgctg atcagcttcg aatctggaac atcattcctg	180
ggcaagactg cctctcttcg ggcgtcagtc accccgagga ttgtgccaaa ggcaaagtct	240
gggtctcaga tatcgctca ggcattctac aaggtggcgg ngcttggtgc tgnccgnggc	300
atnggccaac cactgggcct gctgatnaag atg	333

<210> 179
<211> 630
<212> DNA
<213> Lolium perenne

<220>
<221> misc_feature
<222> (2)..(2)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (6)..(6)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (16)..(17)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (33)..(33)
<223> n is a, c, g, or t

<400> 179
gncacnacat tccccnctg cccaccaacc canttggaaat ggcatcagct gtcaccatca 60
gttcagtcag cgcccaggcc gctctggtgt caaaaccaag gagtcatggc agcacgagct 120
tcagtggcct gaaggcatca tcctcgtcga tcagcttcga atctggaaca tcattcctgg 180
gcaagactgc ctctcttcgg gcgtcagtca ccccgaggat tgtgccaaag gcaaagtctg 240
ggctctcagat atcgccctcag gcatcttaca aggtggcggt gcttggtgct gccggtggca 300
tcggtcaacc actgggcctg ctgatcaaga tgctgcctct ggtctcggag ctgcgccctgt 360
atgatattgc gaatgtcaag ggcgtcgtg ccgatctcag cactgcaac acgcctgctc 420
aggtcatgga cttcactggc cccgcggaac tagcagagtg cttgaaaggc gtggatgttg 480
tcgtcatccc tgcgggtgtc ccaaggaagc caggcatgac ccgtgatgac ctttttaaca 540
tcaatgcggg catcgtcaag tcgcttatcg aggtgtttgc agacaactgc cctgaggcct 600
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 caggccgctc tggtgtcaaa accaaggagt catggcagca cgagcttcag tggcctgaag 120
 gcatcatcat cgtcgatcag cttcgaatct ggaacatcat tcctgggcaa gactgcctct 180
 cttcggggcgt cagtcacccc gaggattgtg ccaaaggcaa agtctgggtc tcagatatcg 240
 cctcaggcat cttacaaggt ggcggtgctt ggtgctgccg gtggcatcgg tcaaccactg 300
 ggcctgctga tcaagatgtc gcctctggtc tcggagctgc gcctgtatga tattgcgaat 360
 gtcaagggcg tcgctgccga tctcagccac tgcaacacgc ctgctcaggt catggacttc 420
 actggccccg cggaactagc agagtgcttg aaaggcgtgg atgttgncgt catccctgcg 480
 ggtgtcccaa ggaagccagg catgaccggt gatgaccttt ttaacatcaa tgcgggcatc 540
 gtcaagtcgc ttatcgaggc tgttgcagac aactgccctg aggccttcac ccatattatc 600
 agcaaccggt tcaactncac ggtgccgatt gctgcagaga ttctgaaaca gaaggcgctc 660
 tacaaccca a 671

<210> 181
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 actgcaacac gcctgctcag gccatggact tcaactggccc cgcggaacta gcagagtgtc 180
 tgaaaggtgt ggatgttgtc gtcattccctg cgggtgtccc aaggaagcct ggcattgactc 240
 gtgatgacct ttttaacatc aatgcgggca tcgtcaagtc gcttattgag gctgttgag 300
 acaactgccc agaggccttc atccatatca tcagcaaccc ggtcaactcc actgtgccga 360
 ttgctgctga gattctgaaa cagaaggggtg tctacaaccc caagaagctc ttcgggggtt 420
 ccaccctgga tgttgtcaga gctaacacat ttgtagctca gaagaagaac ctcagcctca 480
 tcgatgttga tgtcccagtt gtcggtggcc atgctgggat cacgattctg cctctgttgt 540
 ccaagactag gccttctgtc agcttcacgg acgaggaaac tgaacagctg acaaagagga 600
 tacagaacgc tgggacagag gtggtggagg cgaa 634

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 gagtgcttga aaggtgtgga tgttgtcgtc atccctgcgg gtgtcccaag gaagcctggc 120
 atgactcgtg atgacctttt taacatcaat gcgggcatcg tcaagtcgct tattgaggct 180
 gttgcagaca actgcccaga ggccttcata catatcatca gcaacccggt caactccact 240
 gtgccgattg ctgctgagat tctgaaacag aaggggtgtct acaaccccaa gaagctcttc 300
 ggggtttcca ccctggatgt tgtcagagct aacacatttg tagctcagaa gaagaacctc 360
 agcctcatcg atgttgatgt ccagttgtc ggtggccatg ctgggatcac gattctgcct 420
 ctgttgcca agactaggcc ttctgtcagc ttcacggacg aggaaactga acagctgaca 480
 aagaggatac agaacgctgg gacagaggcg gtggaggcga aggctggtgc tggctctgct 540
 actctgtcca tggcttatgc cgctgccaga tttgttgagt catcgctccg cgcaatggct 600
 ggtgatccag atgtttacga gtgcacgtat gttcagtctg agttaacaga gcttccattc 660
 ttcgcgtcca gagttaagct tgggaaggac gnggttgagt ccatcatttc ctccgacctg 720
 gagggagtga cggagtacga ggccaaggcg cttgangcat tgaaggctga gctgaag 777

<210> 183
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 <212> DNA
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<400> 183
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 tcatatacga ggaagtaatt attgataact gctgtatgac gctcgtgaag aaccctggta 120
 cgtttgatgt attagtgatg ccaaattctat atggcgacat tattagtgat ctatgtgctg 180
 gtttgatcgg aggcttgggc ctaactccca gctgcaacat tgggtgaagggt ggcatttgtc 240
 ttgcagaggc tgtccatggc tctgcacctg atatattctgg caagaacctg gcaaacccaa 300
 ctgctcttat gctgagtgtt gttatgatgt tgcgccactt gcaattnaac gaccaagcan 360
 aacggatcca caatgctatc ctccagacta tcgncgaggg gaagnacana actg 414

<210> 184
 <211> 137
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<400> 184

Lys Gln Xaa Xaa Leu Phe Xaa Xaa Cys Cys Arg Ala Ile Ala Xaa Lys
1 5 10 15

Tyr Pro Glu Ile Ile Tyr Glu Glu Val Ile Ile Asp Asn Cys Cys Met
20 25 30

Thr Leu Val Lys Asn Pro Gly Thr Phe Asp Val Leu Val Met Pro Asn
35 40 45

Leu Tyr Gly Asp Ile Ile Ser Asp Leu Cys Ala Gly Leu Ile Gly Gly
50 55 60

Leu Gly Leu Thr Pro Ser Cys Asn Ile Gly Glu Gly Gly Ile Cys Leu
65 70 75 80

Ala Glu Ala Val His Gly Ser Ala Pro Asp Ile Ser Gly Lys Asn Leu
85 90 95

Ala Asn Pro Thr Ala Leu Met Leu Ser Ala Val Met Met Leu Arg His
100 105 110

Leu Gln Xaa Asn Asp Gln Ala Xaa Arg Ile His Asn Ala Ile Leu Gln
115 120 125

Thr Ile Xaa Glu Gly Lys Xaa Xaa Thr

<210> 185
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 <223> n is a, c, g, or t

<400> 185
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 aatccactac acagcttcga gctacccccgc ccccgcaatc caaactacct ctccctagca 120
 aatctacaac atgaaggcag tcgtagctgg agccgccggt ggcattggac agccattgtc 180
 cctcctcctt aagacctgcc cgctcgtcac tgagctcgcc ctatacgatg tcgtcaacgc 240
 cgtcggtgtc gcgactgacc tctcccatct ctctcgccc gcgaaagtaa ccggctacct 300
 gccggcaaat gacggtatgc agcaggctct cactggcgcc gacatcggtg tcatccccgc 360
 tggtattccc cgcaagcccc gcatgacccg tgacgacctc ttcaagatca acgccggcat 420
 tgtccagggt ctcatcgagg gtgtcgccaa gactgcccc aaggcatacg ttctcgtcac 480
 ctccaacccc gtcaactcga ctgtgcccac cgccgccgag gtgctgaaga aggccggtgt 540
 cttcgacccc aagaagctct tcggtgtcac caccctcgat gtcgtccgcg ccgagacctt 600
 cgttgccgag atcactggcg agaaggacct agcgaagttg aacatncccg ta 652

<210> 186
 <211> 216
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 <213> *Lolium perenne*

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 <223> Xaa can be any naturally occurring amino acid

<220>
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 <223> Xaa can be any naturally occurring amino acid

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 <223> Xaa can be any naturally occurring amino acid

<400> 186

Xaa Xaa Pro Xaa Thr Thr Leu Val Pro Gln Leu Leu Leu His Thr Ser
 1 5 10 15

Leu Leu Leu Pro Ile His Tyr Thr Ala Ser Ser Tyr Pro Ala Pro Ala
 20 25 30

Ile Gln Thr Thr Ser Pro Gln Ile Tyr Asn Met Lys Ala Val Val Ala
 35 40 45

Gly Ala Ala Gly Gly Ile Gly Gln Pro Leu Ser Leu Leu Leu Lys Thr
 50 55 60

Cys Pro Leu Val Thr Glu Leu Ala Leu Tyr Asp Val Val Asn Ala Val
 65 70 75 80

Gly Val Ala Thr Asp Leu Ser His Ile Ser Ser Pro Ala Lys Val Thr
 85 90 95

Gly Tyr Leu Pro Ala Asn Asp Gly Met Gln Gln Ala Leu Thr Gly Ala
 100 105 110

Asp Ile Val Val Ile Pro Ala Gly Ile Pro Arg Lys Pro Gly Met Thr
 115 120 125

Arg Asp Asp Leu Phe Lys Ile Asn Ala Gly Ile Val Gln Gly Leu Ile
 130 135 140

Glu Gly Val Ala Lys His Cys Pro Lys Ala Tyr Val Leu Val Ile Ser
 145 150 155 160

Asn Pro Val Asn Ser Thr Val Pro Ile Ala Ala Glu Val Leu Lys Lys
 165 170 175

Ala Gly Val Phe Asp Pro Lys Lys Leu Phe Gly Val Thr Thr Leu Asp
 180 185 190

Val Val Arg Ala Glu Thr Phe Val Ala Glu Ile Thr Gly Glu Lys Asp
 195 200 205

Pro Ala Lys Leu Asn Xaa Pro Val
 210 215

<210> 187
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 <223> n is a, c, g, or t

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 taaggttgct gagacgtttg ggggttaagnt gactatgttt catggacgag ggggtactgt 180
 tggaagaggt ggcgcccta cccatcttgc tatactgtca caacctccag atactgtcca 240
 tggatcactt cgggtaactg ttcaagggtga agtcattgag cagtccttcg gagaggagca 300
 tttgtgtttt agaacgcttc aacgttttac agctgctact cttgaacatg gtatgcatcc 360
 accaatctca cctaaaccag aatggcgtgc tttgatggat gaaatggctg ttgttgccac 420
 agaggaatac cgttccattg ttttccaaga accaagattt gttgagtatt tccgccttgc 480
 aacaccagag ctcgagtatg gtaggatgaa tattggaagc aggccatcaa aacgtaagcc 540
 aagcggagga atcgaatcat tgcgtgcaat tccttgata tttgcttgga cacagactag 600
 attccacctg ccagtgtggc ttgnttttgg tgcggccttc aagcatgtcc tgcaaaagga 660
 cattcgtant cttcaaatcc ttcagcagat gtacaacgag tggccgttta gggttaccat 720
 aaacctggtt gagatggtgt ttgccaaggg cgatccaggt atagcagct 769

<210> 188

<211> 256
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<400> 188

Xaa Thr Arg Asn Arg Ile Asn Gly Lys Xaa Glu Val Met Ile Gly Tyr
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Gln His Ser Gly Lys Asp Ala Gly Arg Phe Ser Ala Gly Trp His Leu
 20 25 30

Tyr Lys Ala Gln Glu Glu Leu Ile Lys Val Ala Glu Thr Phe Gly Val
 35 40 45

Lys Xaa Thr Met Phe His Gly Arg Gly Gly Thr Val Gly Arg Gly Gly
 50 55 60

Gly Pro Thr His Leu Ala Ile Leu Ser Gln Pro Pro Asp Thr Val His
 65 70 75 80

Gly Ser Leu Arg Val Thr Val Gln Gly Glu Val Ile Glu Gln Ser Phe
 85 90 95

Gly Glu Glu His Leu Cys Phe Arg Thr Leu Gln Arg Phe Thr Ala Ala
 100 105 110

Thr Leu Glu His Gly Met His Pro Pro Ile Ser Pro Lys Pro Glu Trp
 115 120 125

Arg Ala Leu Met Asp Glu Met Ala Val Val Ala Thr Glu Glu Tyr Arg
 130 135 140
 Ser Ile Val Phe Gln Glu Pro Arg Phe Val Glu Tyr Phe Arg Leu Ala
 145 150 155 160
 Thr Pro Glu Leu Glu Tyr Gly Arg Met Asn Ile Gly Ser Arg Pro Ser
 165 170 175
 Lys Arg Lys Pro Ser Gly Gly Ile Glu Ser Leu Arg Ala Ile Pro Trp
 180 185 190
 Ile Phe Ala Trp Thr Gln Thr Arg Phe His Leu Pro Val Trp Leu Xaa
 195 200 205
 Phe Gly Ala Ala Phe Lys His Val Leu Gln Lys Asp Ile Arg Xaa Leu
 210 215 220
 Gln Ile Leu Gln Gln Met Tyr Asn Glu Trp Pro Phe Arg Val Thr Ile
 225 230 235 240
 Asn Leu Val Glu Met Val Phe Ala Lys Gly Asp Pro Gly Ile Ala Ala
 245 250 255

<210> 189
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<400> 189
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 tgcagcggga gtgccatata aaaaagccat tgagagttgt tccactatth gaaaagcttg 180
 cagatcttga ancagctcca gcatctgttg cagcactatt ttcaatagac tggtagatga 240
 atagaatcaa tggcaagcag gaggtcatga ttggatactc agactctggg aaggacgctg 300
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 agcaatatgg agtaaagtta acaatgtttc atggaagagg tggaacgggt ggcagaggag 420
 gtggtcccag tcatcttgct atattatctc aaccaccaga cacgatacaa ggatcacttc 480
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 gaactctgca acgtttcact gcagctactc ttgagcatgg aatgcatcct ccaatttcac 600
 ccaagccaga atggcgtgct ataattgatg agatggctgt agtggcaaca aaagaatatc 660
 gatcaattgt cttccaagaa ccacgttttg tcgaatactt ccgctcggca acacctgaga 720
 ctgaatatgg tcggatgaat attggtagcc ggccatcaaa gagaaagcct agtggaggca 780
 tagaatcgct ccgtgcaatt ccatggatct ttgcttgag acagacaagg tttcatcttc 840
 ctgtatggct tggatttggt gcagcgttca aacatatcat gcagaaggac atcaggaata 900
 tccatactct gaaagaaatg tacaatgagt ggccattctt tagggtcacc cttgacttgc 960
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 agttactcct tcagggttgct ggccacaagg acgttcttga aggggatcct tacctgaagc 1140
 agcgtctgag gttgcgtgag tcatacatca caacattgaa tgtttgccaa gccnacaccc 1200

tgaagcggat aagagaccct agcttcgagg tgacaccgca gcaggcacct ctgtcgaagg 1260
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 ccccaggcct ggaggacacc ctcatcctta ccatgaaggg tatttgctgt ggaatgcaaa 1380
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 atatgtgtgt tccccaaatg ctagtgaacc ctggaggcat tttggccact tacatgcctt 1500
 ttggttatgg atgnactttg atcttaatgn caagggttgt tgaagcctga tctaaataaa 1560
 atatggaaca atgatattct ggtnggatct aataatttgc ttggctctgg catcgnaata 1620
 gngatttga gtngtttaac 1640

<210> 190
 <211> 462
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 <213> Lolium perenne

<220>
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 <223> Xaa can be any naturally occurring amino acid

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 <223> Xaa can be any naturally occurring amino acid

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 <223> Xaa can be any naturally occurring amino acid

<220>
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 <223> Xaa can be any naturally occurring amino acid

<400> 190

Arg Ser Cys Xaa Cys Phe Lys Xaa Ile Xaa Val Leu Ala Glu Leu Pro
 1 5 10 15

Ala Asp Cys Phe Gly Ala Tyr Ile Ile Ser Met Ala Thr Ala Pro Ser
 20 25 30

Asp Val Leu Ala Val Glu Leu Leu Gln Arg Glu Cys His Ile Lys Lys
 35 40 45

Pro Leu Arg Val Val Pro Leu Phe Glu Lys Leu Ala Asp Leu Glu Xaa
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50		55		60											
Ala 65	Pro	Ala	Ser	Val	Ala 70	Arg	Leu	Phe	Ser	Ile 75	Asp	Trp	Tyr	Met	Asn 80
Arg	Ile	Asn	Gly	Lys 85	Gln	Glu	Val	Met	Ile 90	Gly	Tyr	Ser	Asp	Ser	Gly 95
Lys	Asp	Ala	Gly 100	Arg	Leu	Ser	Ala	Ala 105	Trp	Gln	Met	Tyr	Lys 110	Ala	Gln
Glu	Asp	Leu 115	Ile	Lys	Val	Ala	Lys 120	Gln	Tyr	Gly	Val	Lys 125	Leu	Thr	Met
Phe	His 130	Gly	Arg	Gly	Gly	Thr 135	Val	Gly	Arg	Gly	Gly 140	Gly	Pro	Ser	His
Leu 145	Ala	Ile	Leu	Ser	Gln 150	Pro	Pro	Asp	Thr	Ile 155	Gln	Gly	Ser	Leu	Arg 160
Val	Thr	Val	Gln 165	Gly	Glu	Val	Ile	Glu	His 170	Ser	Phe	Gly	Glu	Glu 175	His
Leu	Cys	Phe	Arg 180	Thr	Leu	Gln	Arg	Phe 185	Thr	Ala	Ala	Thr	Leu 190	Glu	His
Gly	Met	His 195	Pro	Pro	Ile	Ser	Pro 200	Lys	Pro	Glu	Trp	Arg 205	Ala	Ile	Met
Asp 210	Glu	Met	Ala	Val	Val	Ala 215	Thr	Lys	Glu	Tyr	Arg 220	Ser	Ile	Val	Phe
Gln 225	Glu	Pro	Arg	Phe	Val 230	Glu	Tyr	Phe	Arg	Ser 235	Ala	Thr	Pro	Glu	Thr 240
Glu	Tyr	Gly	Arg	Met 245	Asn	Ile	Gly	Ser	Arg 250	Pro	Ser	Lys	Arg	Lys 255	Pro
Ser	Gly	Gly	Ile 260	Glu	Ser	Leu	Arg	Ala 265	Ile	Pro	Trp	Ile	Phe 270	Ala	Trp
Thr	Gln 275	Thr	Arg	Phe	His	Leu	Pro 280	Val	Trp	Leu	Gly	Phe 285	Gly	Ala	Ala
Phe	Lys 290	His	Ile	Met	Gln	Lys 295	Asp	Ile	Arg	Asn	Ile 300	His	Thr	Leu	Lys
Glu	Met	Tyr	Asn	Glu	Trp	Pro	Phe	Phe	Arg	Val	Thr	Leu	Asp	Leu	Leu

305 310 315 320
 Glu Met Val Phe Ala Lys Gly Asp Pro Gly Ile Ala Ala Leu Tyr Asp
 325 330 335
 Lys Leu Leu Val Ser Glu Asp Leu Gln Pro Phe Gly Glu Gln Leu Arg
 340 345 350
 Asn Asn Phe Glu Glu Thr Lys Gln Leu Leu Leu Gln Val Ala Gly His
 355 360 365
 Lys Asp Val Leu Glu Gly Asp Pro Tyr Leu Lys Gln Arg Leu Arg Leu
 370 375 380
 Arg Glu Ser Tyr Ile Thr Thr Leu Asn Val Cys Gln Ala Xaa Thr Leu
 385 390 395 400
 Lys Arg Ile Arg Asp Pro Ser Phe Glu Val Thr Pro Gln Gln Ala Pro
 405 410 415
 Leu Ser Lys Glu Phe Ala Asp Glu Lys Glu Pro Ala Glu Leu Val Gln
 420 425 430
 Leu Asn Arg Gly Ser Glu Tyr Ala Pro Gly Leu Glu Asp Thr Leu Ile
 435 440 445
 Leu Thr Met Lys Gly Ile Cys Cys Gly Met Gln Asn Thr Gly
 450 455 460

<210> 191
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 <212> DNA
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 <222> (192)..(192)
 <223> n is a, c, g, or t

<220>
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 <222> (541)..(541)
 <223> n is a, c, g, or t

<220>
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 <223> n is a, c, g, or t

<220>
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 <222> (632)..(632)
 <223> n is a, c, g, or t

<220>
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 <222> (643)..(643)
 <223> n is a, c, g, or t

<220>
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 <223> n is a, c, g, or t

<220>
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 <222> (685)..(685)
 <223> n is a, c, g, or t

<220>
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 <222> (691)..(691)
 <223> n is a, c, g, or t

<220>
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 <222> (693)..(693)
 <223> n is a, c, g, or t

<400> 191
 gaagaagttg ctgatgtttt aagnacattt ntgtccttgc agagctccca gcagattggt 60
 ttggtgctta catcatctca atggcaactg ccccatctga tgtgcttgct gttgagcttt 120
 tgcagcggga gtgccatata aaaaagccat tgagagttgt tccactattt gaaaagcttg 180
 cagatcttga ancagctcca gcatctgttg cacgactatt ttcaatagac tggtagatga 240
 atagaatcaa tggcaagcag gaggtcatga ttggatactc agactctggg aaggacgctg 300
 ggcgtctctc tgcagcgtgg caaatgtata aagcacaaga agatctcata aagggtggcaa 360
 agcaatatgg agtaaagtta acaatgtttc atggaagagg tggaacggtt ggcagaggag 420
 gtggtcccag tcatcttgct atattatctc aaccaccaga cacgatacaa ggatcacttc 480
 gtgtaacagt tcaaggcgag gtcataagagc actcatttgg agaggaacac ttgtgcttca 540
 naactctgca acgtttcact gcagctactc ttgagcatgg aatgcatcct ccaatttccc 600
 ccaaaccaga atggcntgct ataatggatg anatggctgt agnggcacca aaagaaaatc 660
 gatcaattgn cttccaagaa ccccnttttg ncnaata 697

<210> 192
 <211> 785

<212> DNA
<213> Lolium perenne

<220>
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<222> (732)..(732)
<223> n is a, c, g, or t

<220>
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<222> (758)..(758)
<223> n is a, c, g, or t

<220>
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<222> (777)..(777)
<223> n is a, c, g, or t

<400> 192
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gtttcatgga agaggtggaa cggttggcag aggaggtggt cccagtcatc ttgctatatt 120
atctcaacca ccagacacga tacaaggatc acttcgtgta acagttcaag gcgagggtcat 180
agagcactca tttggagggg aacacttggtg cttcagaact ctgcaacggt tcaactgcagc 240
tactcttgag catggaatgc atcctccaat ttcacccaag ccagaatggc gtgctataat 300
ggatgagatg gctgtagtgg caacaaaaga atatcgatca attgtcttcc aagaaccacg 360
ttttgtcgaa tacttccgct cggcaacacc tgagactgaa tatgggtcgga tgaatattgg 420
tagccggcca tcaaagagaa agcctagtgg aggcatagaa tcgctccgtg caattccatg 480
gatctttgct tggacacaga caaggtttca tcttcctgta tggcttggat ttggtgcagc 540
gttcaaacat atcatgcaga aggacatcag gaatatccat actctgaaag aaatgtacaa 600
tgagtggcca ttcttttaggg tcacccttga cttgcttgag atgggtttttg ccaagggaga 660
tccaggaatt gctgctttat atgacaaatt gcttgtgtct gaagatctgc agccctttgg 720
ggagcagctg anaaacaact ttgaagagac gaaacagnta ctctttaagg ttgttgncca 780
caagg 785

<210> 193
<211> 783
<212> DNA
<213> Lolium perenne

<220>
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<222> (8)..(8)
<223> n is a, c, g, or t

<400> 193
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ttatctcaac cactagacac gatacaagga tcacttcgtg taacagttca aggcgaggtc 120

atagagcact catttgagaga ggaacacttg tgcttcagaa ctctgcaacg tttcactgca	180
gctactcttg agcatggaat gcatcctcca atttcaccca agccagaatg gcgtgctata	240
atggatgaga tggctgtagt ggcaacaaaa gaatatcgat caattgtctt ccaagaacca	300
cgttttgctg aatacttccg ctcggcaaca cctgagactg aatatggctg gatgaatatt	360
ggtagccggc catcaaagag aaagcctagt ggaggcatag aatcgctccg tgcaattcca	420
tggatctttg cttggacaca gacgagggtt catcttcctg tatggcttgg atttggtgca	480
gcgttcaaac atatcatgca gaaggacatc aggaatatcc atactctgaa agaaatgtac	540
aatgagtggc cattcttttag ggtcaccctt gacttgcttg agatggtttt tgccaagggg	600
gatccagggg ttgctgcttt atatgacaaa ttgcttggtg ctgaagatct gcagcccttt	660
ggggagcagc tgagaaacaa ctttgaagag acgaaacagt tactccttca gggtgctggc	720
cacaaggacg ttcttgaagg ggatccttac ctgaagcagc gtctgcgggt gcgtgagtca	780
tac	783

<210> 194
 <211> 764
 <212> DNA
 <213> *Lolium perenne*

<220>
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 <222> (4)..(4)
 <223> n is a, c, g, or t

<400> 194	
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gatcacttcg tgtaacagtt caaggcgagg tcatagagca ctcatcttga gaggaacact	120
tgtgcttcag aactctgcaa cgtttcactg cagctactct tgagcatgga atgcacctc	180
caatttcacc caagccagaa tggcgtgcta taatggatga gatggctgta gtggcaacaa	240
aagaatatcg atcaattgtc ttccaagaac cacgttttgt cgaatacttc cgctcggcaa	300
cacctgagac tgaatatggt cggatgaata ttggtagccg gccatcaaag agaaagccta	360
gtggaggcat agaatcgctc cgtgcaattc catggatctt tgcttggaca cagacaaggt	420
ttcatcttcc tgtatggctt ggatttggtg cagcgttcaa acatatcatg cagaaggaca	480
tcaggaatat ccatactctg aaagaaatgt acaatgagtg gccattcttt agggctaccc	540
ttgacttgct tgagatggtt ttgcccagg gagatccagg aattgctgct ttatatgaca	600
aattgcttgt gtctgaagat ctgcagccct ttggggagca gctgagaaac aactttgaag	660
agacgaaaca gttactcctt caggttgctg gccacaagga cgttcttgag ggggatcctt	720
acctgaagca gcgtctgcgg ttgcgtgagt catacatcac aaca	764

<210> 195
 <211> 666
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (10)..(10)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (81)..(81)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (538)..(538)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (542)..(542)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (557)..(557)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (610)..(610)
 <223> n is a, c, g, or t

<220>
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 <222> (642)..(642)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (648)..(648)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (659)..(659)
 <223> n is a, c, g, or t

<400> 195
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 tctgcagccc tttggggagc ngctgagaaa caactttgaa gagacgaaac agttactcct 120
 tcaggttgct ggccacaagg acgttcttga aggggatcct tacctgaagc agcgtctgcg 180
 gttgcgtgag tcatacatca caacattgaa tgtttgccaa gcctacaccc tgaagcggat 240
 aagagaccct agcttcgagg tgacaccgca gcaggcacct ctgtcgaagg agttcgtgta 300
 tgagaaggag ccagctgagc tgggtgcaact gaaccgtggg agcgagtacg cccagggcct 360

ggaggacacc ctcaccccta ccatgaaggg tattgctgtg gaatgcaaaa cacaggctag	420
gccagtttgc ctattggaat aactgtcatt ccgtcagatg gggcgtgaat atgtgtgttc	480
cccaaagtct agtgaaccct ggaggcattt tggccactta catgcctttt ggttatgnat	540
gnacttgatc ttaatgncaa gggttgttga agcctgatct aaataaaata tggaacaatg	600
atattctggn ggatctaata atttgcttgg ctctggcatc gnaatagnga tttggagtng	660
tttaac	666

<210> 196
 <211> 482
 <212> DNA
 <213> Lolium perenne

<220>
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 <222> (86)..(87)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (404)..(404)
 <223> n is a, c, g, or t

<220>
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 <222> (424)..(424)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (448)..(448)
 <223> n is a, c, g, or t

<400> 196	
ggacgttctt gaaggggatc cttacctgaa gcagcgtctg cggttgcgtg agtcatacat	60
cacaacattg aatgtttgcc aagcgnncac cctgaagcgg ataagagacc ctagcttcga	120
ggtgacaccg cagcaggcac ctctgtcgaa ggagttcgct gatgagaagg agccagctga	180
gctggtgcaa ctgaaccgtg ggagcgagta cgccccaggc ctggaggaca ccctcatcct	240
taccatgaag ggtatttgct gtggaatgca aaacacaggc taggccagtt tgcctatttg	300
gaataactgt catcccgta gatgggcgtg aatatgtgtg ttccccaaat gctagtgaac	360
cctggaggca tttggccact tacatgcctt ttggttatgg atgnactttg atcttaatgt	420
caanggttgt tgaagcctga tctaaatnaa atatggaaca atgatattct ggttgtttct	480
ta	482

<210> 197
 <211> 224
 <212> DNA
 <213> Lolium perenne

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<220>
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<223> n is a, c, g, or t

<220>
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<222> (11)..(11)
<223> n is a, c, g, or t

<220>
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<222> (15)..(15)
<223> n is a, c, g, or t

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<222> (19)..(19)
<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<222> (180)..(180)
<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<222> (199)..(199)
<223> n is a, c, g, or t

<220>
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<222> (205)..(205)
<223> n is a, c, g, or t

<220>
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<222> (213)..(213)
<223> n is a, c, g, or t

<220>
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<222> (222)..(222)
<223> n is a, c, g, or t

<400> 197
agcantctgt ncttncanc aaccacgttt tgtncgaata cttncgctc ggcaacacct      60
gcacactgaa tatggtcggc atgaatattg gtagccggcc atcaaagaga aagcctagtg    120
gagggcataga atcgctccgt gcaattccat gcatctttgn ttggacacag acaaggnttn    180
atnttcctgt atgncttgna ttcgntcca cncaccccc cnta                        224

<210> 198
<211> 73
<212> PRT
<213> Lolium perenne

<220>
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<223> Xaa can be any naturally occurring amino acid

<220>
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<222> (3)..(3)
<223> Xaa can be any naturally occurring amino acid

<220>
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<222> (5)..(6)
<223> Xaa can be any naturally occurring amino acid

<220>
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<222> (11)..(11)
<223> Xaa can be any naturally occurring amino acid

<220>
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<222> (14)..(14)
<223> Xaa can be any naturally occurring amino acid

<220>
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<222> (53)..(53)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> misc_feature
<222> (59)..(61)
<223> Xaa can be any naturally occurring amino acid

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<220>
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 <222> (64)..(64)
 <223> Xaa can be any naturally occurring amino acid

<220>
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 <222> (66)..(66)
 <223> Xaa can be any naturally occurring amino acid

<220>
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 <222> (68)..(68)
 <223> Xaa can be any naturally occurring amino acid

<220>
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 <222> (71)..(71)
 <223> Xaa can be any naturally occurring amino acid

<400> 198

Xaa Ser Xaa Leu Xaa Xaa Asn His Val Leu Xaa Glu Tyr Xaa Pro Leu
 1 5 10 15

Gly Asn Thr Cys Thr Leu Asn Met Val Gly Met Asn Ile Gly Ser Arg
 20 25 30

Pro Ser Lys Arg Lys Pro Ser Gly Gly Ile Glu Ser Leu Arg Ala Ile
 35 40 45

Pro Cys Ile Phe Xaa Trp Thr Gln Thr Arg Xaa Xaa Xaa Pro Val Xaa
 50 55 60

Leu Xaa Phe Xaa Ser Thr Xaa Thr Pro
 65 70

<210> 199
 <211> 527
 <212> DNA
 <213> Lolium perenne

<220>
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 <222> (4)..(4)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (12)..(12)
 <223> n is a, c, g, or t

<400> 199
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 cgtgacgcgt acatcaccac catgaacgta tgccaggcct acacattgaa gcggatccgt 120
 gaccagact accacgtcgc actgcggccc catctttcca aggaggttat ggacacaagc 180

aagccggcctt ccgagcttgt gacgctgaac ccggccagcg agtacgcccc ggggctggag 240
gacaccctca tcttgaccat gaagggcggtt gctgccgggtc tgcaaaacac cggttagggc 300
caggagagat gcctgatcac catctttttg tatcttcatg atgatgcatg gtttttcttt 360
agtcgtttgc ggtgggcctt atatctctcg gacgtagctg catctgtctc cctgctcagt 420
gaggaataat ggcgtttcgc ccaagtatat tgataaataa agggaaccga tgtaatttc 480
agatttgttt gttagtaatt gttctattta ttttgcgaaa aaaaaaa 527

<210> 200
<211> 98
<212> PRT
<213> Lolium perenne

<220>
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<222> (2)..(2)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa can be any naturally occurring amino acid

<400> 200

Val Xaa Gly Xaa Lys Asp Leu Leu Glu Gly Asp Pro Tyr Leu Lys Gln
1 5 10 15

Arg Leu Arg Leu Arg Asp Ala Tyr Ile Thr Thr Met Asn Val Cys Gln
20 25 30

Ala Tyr Thr Leu Lys Arg Ile Arg Asp Pro Asp Tyr His Val Ala Leu
35 40 45

Arg Pro His Leu Ser Lys Glu Val Met Asp Thr Ser Lys Pro Ala Ser
50 55 60

Glu Leu Val Thr Leu Asn Pro Ala Ser Glu Tyr Ala Pro Gly Leu Glu
65 70 75 80

Asp Thr Leu Ile Leu Thr Met Lys Gly Val Ala Ala Gly Leu Gln Asn
85 90 95

Thr Gly

<210> 201
<211> 450
<212> DNA
<213> Lolium perenne

<220>
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<223> n is a, c, g, or t

<220>
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<222> (302)..(302)
<223> n is a, c, g, or t

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<222> (368)..(368)
<223> n is a, c, g, or t

<220>
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<222> (375)..(375)
<223> n is a, c, g, or t

<220>
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<222> (382)..(382)
<223> n is a, c, g, or t

<220>
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<222> (393)..(393)
<223> n is a, c, g, or t

<220>
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<222> (413)..(413)
<223> n is a, c, g, or t

<220>
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<223> n is a, c, g, or t

<220>
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<222> (420)..(420)
<223> n is a, c, g, or t

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<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (426)..(426)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (445)..(445)
<223> n is a, c, g, or t

<400> 201
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atagaagatc tgatgtttga gctctctatg tggcgctgca gtgatgaact taggggccgt	120
gcagatgaag tacatctgtc ctcaaaaaaa aaatctgcaa agcattacat agagttcttg	180
aagcaagttc ctccaaatga accttatcgt gtcatacttg gcgatgtcag ggataaactg	240
tactatacgc gcgaacgttc tcgccacata ttgacaactg gaatttcaga cattccagaa	300
gngtcaactt ttactaatgt tgaactgttt ctggaacctc ttgagctgtg ctacagatcc	360
ttatcttinct gtgngacaa anctattgct ganggaagcc ttcttgattt ctngcgnncn	420
gnatcnactt tgtgggctta ctctngcgaa	450

<210> 202
 <211> 150
 <212> PRT
 <213> Lolium perenne

<220>
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 <223> Xaa can be any naturally occurring amino acid

<220>
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 <222> (101)..(101)
 <223> Xaa can be any naturally occurring amino acid

<220>
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 <222> (123)..(123)
 <223> Xaa can be any naturally occurring amino acid

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 <222> (125)..(125)
 <223> Xaa can be any naturally occurring amino acid

<220>
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 <222> (128)..(128)
 <223> Xaa can be any naturally occurring amino acid

<220>
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 <222> (131)..(131)
 <223> Xaa can be any naturally occurring amino acid

<220>
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 <222> (138)..(142)
 <223> Xaa can be any naturally occurring amino acid

<220>
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 <222> (149)..(149)
 <223> Xaa can be any naturally occurring amino acid

<400> 202

Val Thr Arg Ala Val Cys Leu Leu Ala Arg Xaa Met Ala Ala Asn Leu
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 Tyr Phe Ser Gln Ile Glu Asp Leu Met Phe Glu Leu Ser Met Trp Arg
 20 25 30
 Cys Ser Asp Glu Leu Arg Val Arg Ala Asp Glu Val His Leu Ser Ser
 35 40 45
 Lys Lys Lys Ser Ala Lys His Tyr Ile Glu Phe Trp Lys Gln Val Pro
 50 55 60
 Pro Asn Glu Pro Tyr Arg Val Ile Leu Gly Asp Val Arg Asp Lys Leu
 65 70 75 80
 Tyr Tyr Thr Arg Glu Arg Ser Arg His Ile Leu Thr Thr Gly Ile Ser
 85 90 95
 Asp Ile Pro Glu Xaa Ser Thr Phe Thr Asn Val Glu Leu Phe Leu Glu
 100 105 110
 Pro Leu Glu Leu Cys Tyr Arg Ser Leu Ser Xaa Cys Xaa Asp Lys Xaa
 115 120 125
 Ile Ala Xaa Gly Ser Leu Leu Asp Phe Xaa Xaa Xaa Xaa Xaa Thr Leu
 130 135 140
 Trp Ala Tyr Ser Xaa Glu
 145 150

<210> 203
 <211> 644
 <212> DNA
 <213> Lolium perenne

<220>
 <221> misc_feature
 <222> (15)..(15)
 <223> n is a, c, g, or t

<220>
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 <222> (28)..(28)
 <223> n is a, c, g, or t

<220>
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 <222> (38)..(38)
 <223> n is a, c, g, or t

<220>
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 <222> (46)..(46)

<223> n is a, c, g, or t

<400> 203
ggggtggtgg ccctnctcac cttgcctncc tgtctcancc accagncaca atcaacggat 60
cactccgggt gactgttcaa ggtgaagtta ttgagcagag ctttggggag gaacacttgt 120
gcttcaggac gctgcagcgt ttcacagctg ctactcttga gcatgggatg cgtccaccca 180
tttcaccaa gccagagtgg cgagctcttc ttgatgagat ggctgtgggt gcaactgagg 240
aataccggtc aatcgtcttc caagaaccac gcttcgctga gtatttccgc cttgcaacac 300
cagagacaga gtatggcagg atgaatatag gaagcaggcc atcaaagaga aaaccaagtg 360
gtggcattga atcactccgt gcaattccat ggatcttcgc atggacgcag acacggttcc 420
accttccagt ctggttgggc tttggtggtg cattcaagca taccctcaag aaggacatca 480
gaaatttcca tatgctccag gagatgtaca acgagtggcc atttttcagg gtcacgatcg 540
atcttggtga gatggtgttc gccaaaggga accctggcat tgctgccttg tatgacaggc 600
tcctggtttc agaggagcta cagccactgg gtgacaagct gagg 644

<210> 204
<211> 214
<212> PRT
<213> Lolium perenne

<220>
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<222> (5)..(5)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> misc_feature
<222> (9)..(9)
<223> Xaa can be any naturally occurring amino acid

<220>
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<222> (12)..(12)
<223> Xaa can be any naturally occurring amino acid

<220>
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<222> (15)..(15)
<223> Xaa can be any naturally occurring amino acid

<400> 204

Gly Gly Gly Pro Xaa His Leu Ala Xaa Leu Ser Xaa Pro Pro Xaa Thr
1 5 10 15

Ile Asn Gly Ser Leu Arg Val Thr Val Gln Gly Glu Val Ile Glu Gln
20 25 30

Ser Phe Gly Glu Glu His Leu Cys Phe Arg Thr Leu Gln Arg Phe Thr
35 40 45

Ala Ala Thr Leu Glu His Gly Met Arg Pro Pro Ile Ser Pro Lys Pro
 50 55 60
 Glu Trp Arg Ala Leu Leu Asp Glu Met Ala Val Val Ala Thr Glu Glu
 65 70 75 80
 Tyr Arg Ser Ile Val Phe Gln Glu Pro Arg Phe Val Glu Tyr Phe Arg
 85 90 95
 Leu Ala Thr Pro Glu Thr Glu Tyr Gly Arg Met Asn Ile Gly Ser Arg
 100 105 110
 Pro Ser Lys Arg Lys Pro Ser Gly Gly Ile Glu Ser Leu Arg Ala Ile
 115 120 125
 Pro Trp Ile Phe Ala Trp Thr Gln Thr Arg Phe His Leu Pro Val Trp
 130 135 140
 Leu Gly Phe Gly Gly Ala Phe Lys His Ile Leu Lys Lys Asp Ile Arg
 145 150 155 160
 Asn Phe His Met Leu Gln Glu Met Tyr Asn Glu Trp Pro Phe Phe Arg
 165 170 175
 Val Thr Ile Asp Leu Val Glu Met Val Phe Ala Lys Gly Asn Pro Gly
 180 185 190
 Ile Ala Ala Leu Tyr Asp Arg Leu Leu Val Ser Glu Glu Leu Gln Pro
 195 200 205
 Leu Gly Asp Lys Leu Arg
 210

<210> 205
 <211> 674
 <212> DNA
 <213> Trifolium repens

<220>
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 <223> n is a, c, g, or t

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 <222> (623)..(623)
 <223> n is a, c, g, or t

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<222> (645)..(645)
<223> n is a, c, g, or t

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<223> n is a, c, g, or t

<400> 205
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atggccaaag acccagttcg tgttcttgct actggtgctg caggacaaat tgggtatgct 120
cttgctcccta tgattgctag gggagtgatg ctcggccctg accagcctgt gatcctccac 180
atgcttgaca ttccacctgc agccgaatca ctcaacggtg ttaaaatgga gttggtggat 240
gctgcattcc ctcttcttaa aggagttggt gctacaactg atgtggttga ggcattgcact 300
ggtgtcaata ttgccgttat ggttggtggg ttccctagaa aagaaggat ggagaggaaa 360
gatgtgatga caaaaaatgt ctctattttac aagtctcagg cttctgccct tgaaaaacat 420
gctgctgcaa actgcaaggt tcttggtggt gccaacccag caaacaccaa tgcattgatc 480
ttgaaggaat atgctccatc cattcctgag aaaaacattt ctgctttgac tagattggac 540
cataacaggg cactaggtca aatttctgaa agactaaacg ttgaagtttc tgatgtgaaa 600
aatgttataa tatgggggaa atnattcatc aactcaatac cctgntgtna accacncaac 660
cgttaaaatc tcct 674

<210> 206
<211> 201
<212> PRT
<213> *Trifolium repens*

<220>
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<223> Xaa can be any naturally occurring amino acid

<220>
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<222> (195)..(195)
<223> Xaa can be any naturally occurring amino acid

<220>
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<222> (197)..(197)
<223> Xaa can be any naturally occurring amino acid

<220>
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<222> (199)..(199)
<223> Xaa can be any naturally occurring amino acid

<400> 206

Met Ala Lys Asp Pro Val Arg Val Leu Val Thr Gly Ala Ala Gly Gln
1 5 10 15

Ile Gly Tyr Ala Leu Val Pro Met Ile Ala Arg Gly Val Met Leu Gly
20 25 30

Pro Asp Gln Pro Val Ile Leu His Met Leu Asp Ile Pro Pro Ala Ala
35 40 45

Glu Ser Leu Asn Gly Val Lys Met Glu Leu Val Asp Ala Ala Phe Pro
50 55 60

Leu Leu Lys Gly Val Val Ala Thr Thr Asp Val Val Glu Ala Cys Thr
65 70 75 80

Gly Val Asn Ile Ala Val Met Val Gly Gly Phe Pro Arg Lys Glu Gly
85 90 95

Met Glu Arg Lys Asp Val Met Thr Lys Asn Val Ser Ile Tyr Lys Ser
100 105 110

Gln Ala Ser Ala Leu Glu Lys His Ala Ala Ala Asn Cys Lys Val Leu
115 120 125

Val Val Ala Asn Pro Ala Asn Thr Asn Ala Leu Ile Leu Lys Glu Tyr
130 135 140

Ala Pro Ser Ile Pro Glu Lys Asn Ile Ser Ala Leu Thr Arg Leu Asp
145 150 155 160

His Asn Arg Ala Leu Gly Gln Ile Ser Glu Arg Leu Asn Val Glu Val
165 170 175

Ser Asp Val Lys Asn Val Ile Ile Trp Gly Lys Xaa Phe Ile Asn Ser
180 185 190

Ile Pro Xaa Cys Xaa Pro Xaa Asn Arg
195 200

<210> 207

<211> 202

<212> DNA

<213> Trifolium repens

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<223> n is a, c, g, or t

<220>

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<222> (91)..(91)

<223> n is a, c, g, or t

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<222> (156)..(156)

<223> n is a, c, g, or t

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<222> (177)..(177)

<223> n is a, c, g, or t

<220>

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<222> (193)..(193)

<223> n is a, c, g, or t

<400> 207

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atggccaaag acccagttcg tgttcttgtc nctggtgctg caggacaact tgggtatgct 120

cttgtcccta tgattgctag gggagtgatg ctcggnctg accannctgt gatcctncac 180

atgcttgaca ttncacctgg ag

202

<210> 208
<211> 559
<212> DNA
<213> Trifolium repens

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<223> n is a, c, g, or t

<220>
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<222> (6)..(6)
<223> n is a, c, g, or t

<220>
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<223> n is a, c, g, or t

<220>
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<222> (21)..(21)
<223> n is a, c, g, or t

<220>
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<222> (24)..(24)
<223> n is a, c, g, or t

<400> 208
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tggccaaaga cccagttcgt gttcttgtca ctggtgctgc aggacaaatt gggatatgctc 120
tcgtccctat gattgctagg ggagtgatgc tcggccctga ccagcctgtg atcctccaca 180
tgcttgacat cccacctgca gccgaatcac tgaacggtgt aaaaatggag ttggtggatg 240
ctgcattccc tcttcttaaa ggagttgttg ctaccactga tgtggttgag gcatgactg 300
gggtcaatat tgccgttatg gttggcgggt tccctagaaa agaaggtatg gagaggaaag 360
atgtgatgac aaaaaatgtc tctatttaca agtctcaggc ttctgccctt gaaaaacatg 420
ctgctgcaaa ctgcaagggt cttgttggtg ccaaccagc aaacaccaat gcattgatct 480
tgaaggaata tgctccatcc attcctgaga aaaacatttc tgctttgact agattggacc 540
ataacagggc acttggtca 559

<210> 209
<211> 567
<212> DNA
<213> Trifolium repens

<220>
<221> misc_feature

<222> (3)..(3)

<223> n is a, c, g, or t

<400> 209

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gccaaagacc cagttcgtgt tcttgctact ggtgctgcag gacaaattgg gtatgctctt    120
gtccctatga ttgctagggg agtgatgctc ggccctgacc agcctgtgat cctccacatg    180
cttgacattc cacctgcagc cgaatcactc aacggtgtta aaatggagtt ggtggatgct    240
gcattccctc ttcttaaagg agttgttgct acaactgatg tggttgaggc atgcactggt    300
gtcaatattg ccgttatggg tgggtgggtc cctagaaaag aaggatgga gaggaaagat    360
gtgatgacaa aaaatgtctc tatttacaag tctcaggctt ctgcccttga aaaacatgct    420
gctgcaaact gcaaggttct tggtgttgcc aaccagcaa acaccaatgc attgatcttg    480
aaggaatatg ctccatccat tcctgagaaa aacatttctg ctttgactag attggaccat    540
aacagggcac taggtcaaatt ttctgaa                                     567
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<210> 210

<211> 575

<212> DNA

<213> *Trifolium repens*

<400> 210

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gccaaagacc cagttcgtgt tcttgctact ggtgctgcag gacaaattgg gtatgctctt    120
gtccctatga ttgctagggg agtgatgctc ggccctgacc agcctgtgat cctccacatg    180
cttgacattc cacctgcagc cgaatcactg aacggtgtta aaatggagtt ggtggatgct    240
gcattccctc ttcttaaagg agttgttgct acaactgatg tggttgaggc atgcactggt    300
gtcaatattg ccgttatggg tgggtgggtc cctagaaaag aaggatgga gaggaaagat    360
gtgatgacaa aaaatgtctc tatttacaag tctcaggctt ctgcccttga aaaacatgct    420
gctgcaaact gcaaggttct tggtgttgcc aaccagcaa acaccaatgc attgatcttg    480
aaggaatatg ctccatccat tcctgagaaa aacatttctg ctttgactag attggaccat    540
aacagggcac taggtcaaatt ttctgaaaga ctaaa                               575
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<210> 211

<211> 606

<212> DNA

<213> *Trifolium repens*

<220>

<221> misc_feature

<222> (7)..(7)

<223> n is a, c, g, or t

<400> 211

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caaagaccca gttcgtgttc ttgtcactgg tgctgcagga caacttgggt atgctcttgt	120
ccctatgatt gctaggggag tgatgctcgg ccctgaccag cctgtgatcc tccacatgct	180
tgacattcca cctgcagccg aatcactcaa cgggtgttaaa atggagttgg tggatgctgc	240
attccctctt cttaaaggag ttgttgctac aactgatgtg gttgaggcat gcactggtgt	300
caatattgcc gttatggttg gtgggttccc tagaaaagaa ggtatggaga ggaaagatgt	360
gatgacaaaa aatgtctcta tttaacaagtc tcaggcttct gcccttgaaa aacatgctgc	420
tgcaaactgc aaggttcttg ttgttgccaa cccagcaaac accaatgcat tgatcttgaa	480
ggaatatgct ccatccattc ctgagaaaaa cttttctgct ttgactagat tggaccataa	540
cagggcacta ggtcaaattt ctgaaagact aaacgttgaa gtttctgatg tgaaaaatgt	600
tataat	606

<210> 212
 <211> 344
 <212> DNA
 <213> *Trifolium repens*

<220>
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 <222> (2)..(2)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (10)..(10)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (54)..(54)
 <223> n is a, c, g, or t

<220>
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 <222> (300)..(300)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (311)..(311)
 <223> n is a, c, g, or t

<220>
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 <222> (317)..(317)
 <223> n is a, c, g, or t

<220>
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 <222> (321)..(321)
 <223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (327)..(327)
<223> n is a, c, g, or t

<220>
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<222> (329)..(329)
<223> n is a, c, g, or t

<220>
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<222> (333)..(333)
<223> n is a, c, g, or t

<220>
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<222> (335)..(335)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (343)..(343)
<223> n is a, c, g, or t

<400> 212
cnttaaaacn cactaaactc ttttctattg ttcttatttc ttcgatctat ttcnatggcc 60
aaagaccag ttcgtgttct tgtcactggt gctgcaggac aacttgggta tgctcttgct 120
cctatgattg ctaggggagt gatgctcggc cctgaccagc ctgtgatcct ccacatgctt 180
gacattccac ctgcagccga atcactcaac ggtgttaaaa tggagttggt ggatgctgca 240
ttccctcttc ttaaaggagt tgttgctaca actgatgtgg ttgaggcatg cactgggtgn 300
aatattgacg ntatggntgg ngggttncnt acnanacaac gtnt 344

<210> 213
<211> 558
<212> DNA
<213> Trifolium repens

<220>
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<222> (4)..(4)
<223> n is a, c, g, or t

<220>
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<222> (16)..(16)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (27)..(27)
<223> n is a, c, g, or t

<400> 213
gcantaaact ctttntatt gttcttnttt cttcgatcta tttccatggc caagaccag 60
ttcgtgttct tgtcactggt gctgcaggac aaattgggta tgctcttgct cctatgattg 120

ctaggggagt gatgctcggc cctgaccagc ctgtgatcct ccacatgctt gacattccac	180
ctgcagccga atcactcaac ggtgttaaaa tggagttggt ggatgctgca ttcctcttc	240
ttaaaggagt tgttgctaca actgatgtgg ttgaggcatg cactggtgtc aatattgccg	300
ttatggttgg tgggttcctt agaaaagaag gtatggagag gaaagatgtg atgacaaaaa	360
atgtctctat ttacaagtct caggcttctg cccttgaaaa acatgctgct gcaaactgca	420
aggttcttgt tgttgccaac ccagcaaaca ccaatgcatt gatcttgaag gaatatgctc	480
catccattcc tgagaaaaac atttctgctt tgactagatt ggaccataac agggcactag	540
gtcaaatttc tgaaagac	558

<210> 214
 <211> 599
 <212> DNA
 <213> *Trifolium repens*

<220>
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 <222> (4)..(4)
 <223> n is a, c, g, or t

<400> 214	
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ttcgtgttct tgtcctggtg ctgcaggaca aattgggtat gctcttgtcc ctatgattgc	120
taggggagtg atgctcggcc ctgaccagcc tgtgatcctc cacatgcttg acattccacc	180
tgcagccgaa tcaactcaacg gtgttaaaat ggagttggtg gatgctgcat tccctcttct	240
taaaggagtt gttgctacaa ctgatgtggt tgaggcatgc actggtgtca atattgccgt	300
tatggttggg gggttcccta gaaaagaagg tatggagagg aaagatgtga tgacaaaaaa	360
tgtctctatt tacaagtctc aggccttctgc ccttgaaaaa catgctgctg caaactgcaa	420
ggttcttgtt gttgccaacc cagcaaacac caatgcattg atcttgaagg aatatgctcc	480
atccattcct gagaaaaaca tttctgcttt gactagattg gaccataaca gggcactagg	540
tcaaatttct gaaagactaa acgttgaagt ttctgatgtg aaaaatgtta taatctggg	599

<210> 215
 <211> 577
 <212> DNA
 <213> *Trifolium repens*

<220>
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 <222> (24)..(24)
 <223> n is a, c, g, or t

<400> 215	
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tggtcttgta ctggtgctgc aggacaactt gggatgctc ttgtccctat gattgctagg	120
ggagtgatgc tcggccctga ccagcctgtg atcctccaca tgcttgacat tccacctgca	180
gccgaatcac tcaacggtgt taaaatggag ttggtggatg ctgcattccc tcttcttaaa	240
ggagttgttg ctacaactga tgtggttgag gcatgcactg gtgtcaatat tgccgttatg	300
gttgggtgggt tccctagaaa agaaggtatg gagaggaaa atgtgatgac aaaaaatgtc	360
tctatttaca agtctcaggc ttctgccctt gaaaaacatg ctgctgcaaa ctgcaagggt	420
cttggtgttg ccaaccagc aaacaccaat gcattgatct tgaaggaata tgctccatcc	480
attcctgaga aaaacatttc tgctttgact agattggacc ataacagggc actagggtcaa	540
atttctgaaa gactaaacgt tgaagtttct gatgtgg	577

<210> 216
 <211> 594
 <212> DNA
 <213> Trifolium repens

<220>
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 <222> (10)..(10)
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<220>
 <221> misc_feature
 <222> (23)..(23)
 <223> n is a, c, g, or t

<400> 216	
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tggtcttgct actggtgctg caggacaaat tgggtatgct cttgtcccta tgattgctag	120
gggagtgatg ctggccctg accagcctgt gatcctccac atgcttgaca ttccacctgc	180
agccgaatca ctcaacggtg ttaaaatgga gttggtggat gctgcattcc ctcttcttaa	240
aggagttggt gctacaactg atgtggttga ggcatgcact ggtgtcaata ttgccgttat	300
ggttgggtggg ttccctagaa aagaaggtat ggagaggaaa gatgtgatga caaaaaatgt	360
ctctatttac aagtctcagg cttctgccct tgaaaaacat gctgctgcaa actgcaagggt	420
tcttggtgtt gccaacccag caaacaccaa tgcattgatc ttgaaggaat atgctccatc	480
cattcctgag aaaaacattt ctgctttgac tagattggac cataacaggg cactagggtca	540
aatttctgaa agactaaacg ttgaagtttc tgatgtgaaa aatgttataa tctg	594

<210> 217
 <211> 653
 <212> DNA
 <213> Trifolium repens

<220>
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 <222> (319)..(319)
 <223> n is a, c, g, or t

<220>
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 <222> (327)..(327)
 <223> n is a, c, g, or t

<220>
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 <222> (387)..(387)
 <223> n is a, c, g, or t

<220>
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 <222> (432)..(432)
 <223> n is a, c, g, or t

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 <222> (480)..(480)
 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

<220>
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 <223> n is a, c, g, or t

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 <222> (570)..(570)
 <223> n is a, c, g, or t

<220>
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 <223> n is a, c, g, or t

<220>
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 <222> (624)..(624)
 <223> n is a, c, g, or t

<220>
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 <222> (628)..(628)
 <223> n is a, c, g, or t

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<220>
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<222> (635)..(635)
<223> n is a, c, g, or t

<400> 217
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gtgttcttgt cactggtgct gcaggacaaa ttgggtatgc tcttgtccct atgattgcta      120
ggggagtgat gctcggccct gaccagcctg tgatcctcca catgcttgac attccacctg      180
cagccgaatc actcaacggt gttaaaatgg agttggtgga tgctgcattc cctcttctta      240
aaggagtgtg tgctacaact gatgtggttg aggcatgcac tgggtgtcaat attgccgtta      300
tggttggttg gttccctana aaagaangta tggagaggaa agatgtgatg acaaaaatgt      360
ctctattttac aagtcttaag cttttgncct tgaaaaacat gctgctgcaa actgcaaggt      420
tcttgttggt gncaaccac caaacaccaa tgcattgatc ttgaaggaa atgctccatn      480
cattcctgan aaaaacattt ntgctttgac tagattggac cataacaggg cactaggggca      540
aatttntgaa anactaaacg ttgaagtttn tgatgtgaaa aatgttatat atggggggaaa      600
tnattcatca actcaatacc ctgntgtnaa ccacncaacc gttaaaatct cct              653

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<210> 218
<211> 1111
<212> DNA
<213> Trifolium repens

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<220>
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<222> (9)..(9)
<223> n is a, c, g, or t

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<220>
<221> misc_feature
<222> (14)..(15)
<223> n is a, c, g, or t

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<220>
<221> misc_feature
<222> (20)..(20)
<223> n is a, c, g, or t

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<220>
<221> misc_feature
<222> (27)..(27)
<223> n is a, c, g, or t

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<220>
<221> misc_feature
<222> (55)..(55)
<223> n is a, c, g, or t

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<220>
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<222> (66)..(66)

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<223> n is a, c, g, or t

<400> 218

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tctctnaaca aaaactgttc ttctctcttt aatcttccct gttcgattcc ttccatttct    120
tcaaaaatgg ccaaagaccc agttcgtgtt ctcgtcactg gtgctgcagg gcaaattggt    180
tatgcacttg tccctatgat tgctagggga gtgatgcttg gtcctgatca acctgtgatc    240
cttcacatgc ttgatattcc tccagcagca gagtcattga atggagttaa gatggagtgt    300
gtcgatgctg catttccact tcttaaaggt gttgttgcta caactgatgt tgttgaagca    360
tgactggag tcaatattgc agtcatggtt ggtggattcc caagaaaaga aggtatggag    420
aggaaggatg tgatgtctaa gaacgtctct atttacaagt cccaggcttc tgcccttgaa    480
aagcatgctg ctgccaaactg caaggttttg gttgttgcta acccagcaaa caccaatgca    540
ttgatcttga aggaatttgc tccatctatt ccagagaaaa acatttcttg tttgactaga    600
cttgatcaca acagggcatt gggccaaatt tctgaaagat tgaatgttca agtttctgat    660
gtaaagaatg tcattatctg gggtaatcat tcatcaactc agtatcctga tgtcaaccat    720
gcaactgtta acacccccgc tggggagaag cctgtccgtg agcttgtttc tgatgacgcc    780
tggttgaatg gagaattcat atctaccgtt caacaacgtg gtgctgcaat tattaaggct    840
agaaagcttt caagcgcact atccgctgct agcgtgctt gcgaccacat tcgcgattgg    900
gttcttgga cccccaggg caccttcgtt tcaatgggag tgtattctga tggttcttac    960
aacgtaccag ctggactcat ctattcattc cctgtcacca ctgctaattg ggaatggaaa   1020
attgttcaag gactttcaat tgacgagttc tcaaggaaga agttggactt gacagctgaa   1080
gagttatccg aggaaaagag tttggcatac t                                     1111
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<210> 219

<211> 328

<212> PRT

<213> *Trifolium repens*

<400> 219

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Ile Gly Tyr Ala Leu Val Pro Met Ile Ala Arg Gly Val Met Leu Gly
20         25         30
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Pro Asp Gln Pro Val Ile Leu His Met Leu Asp Ile Pro Pro Ala Ala
35         40         45
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Glu Ser Leu Asn Gly Val Lys Met Glu Leu Val Asp Ala Ala Phe Pro
50         55         60
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Leu 65 Leu Lys Gly Val 70 Val Ala Thr Thr Asp 75 Val Val Glu Ala Cys Thr 80
 Gly Val Asn Ile 85 Ala Val Met Val Gly 90 Gly Phe Pro Arg Lys 95 Glu Gly
 Met Glu Arg Lys 100 Asp Val Met Ser 105 Lys Asn Val Ser Ile 110 Tyr Lys Ser
 Gln Ala 115 Ser Ala Leu Glu Lys 120 His Ala Ala Ala Asn 125 Cys Lys Val Leu
 Val 130 Val Ala Asn Pro Ala 135 Asn Thr Asn Ala Leu 140 Ile Leu Lys Glu Phe
 Ala 145 Pro Ser Ile Pro 150 Glu Lys Asn Ile Ser 155 Cys Leu Thr Arg Leu 160 Asp
 His Asn Arg Ala 165 Leu Gly Gln Ile Ser 170 Glu Arg Leu Asn Val 175 Gln Val
 Ser Asp Val 180 Lys Asn Val Ile Ile Trp 185 Gly Asn His Ser 190 Ser Thr Gln
 Tyr Pro 195 Asp Val Asn His Ala 200 Thr Val Asn Thr Pro 205 Ala Gly Glu Lys
 Pro 210 Val Arg Glu Leu Val 215 Ser Asp Asp Ala Trp 220 Leu Asn Gly Glu Phe
 Ile 225 Ser Thr Val 230 Gln Gln Arg Gly Ala Ala 235 Ile Ile Lys Ala Arg 240 Lys
 Leu Ser Ser Ala 245 Leu Ser Ala Ala Ser 250 Ala Ala Cys Asp His 255 Ile Arg
 Asp Trp Val 260 Leu Gly Thr Pro Gln 265 Gly Thr Phe Val Ser 270 Met Gly Val
 Tyr Ser 275 Asp Gly Ser Tyr Asn 280 Val Pro Ala Gly Leu 285 Ile Tyr Ser Phe
 Pro 290 Val Thr Thr Ala Asn 295 Gly Glu Trp Lys Ile 300 Val Gln Gly Leu Ser
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325

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<213> Trifolium repens

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<223> n is a, c, g, or t

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accagttcg tgttctcgtc actggtgctg cagggcaaat tggttatgca cttgtcccta 180
tgattgctag gggagtgatg cttggtcctg atcaacctgt gatcctacac atgcttgata 240

ttccacccgc agcagagtca ttgaatggag ttaagatgga gatggncgat gctgnattnn	300
cacttggttaa aggngangct gct	323

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 <211> 350
 <212> DNA
 <213> Trifolium repens

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 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

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 <222> (336)..(336)
 <223> n is a, c, g, or t

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 <222> (341)..(341)
 <223> n is a, c, g, or t

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 <222> (344)..(346)
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ccagttcgtg ttctcgtcac tgggtgctgca gggcaaattg gttatgcact tgtccctatg	180

attgctaggg gagtgatgct tggctctgat caacctgtga tcctacacat gcttgatatt	240
ccacccgcag cagagtcatt gaatggagtt aagatggagt tggtcgatgc tgcatttcca	300
cttgttaaag gtgntgatgn tacaactgat gatgngnacg natnnnctgg	350

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 <223> n is a, c, g, or t

<400> 222	
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tggtctcgtc actggtgctg caggccaaat tggttatgca cttgtcccta tgattgctag	180
gggagtgatg cttggtcctg atcaacctgt gatccttcac atgcttgata tccctccagc	240
agcagagtca ttgaatggag ttaaaatgga gttggtggat gctgcatttc cacttcttaa	300
aggtgttggt gctacaactg atgttggtga agcatgcact ggagtcaata ttgcagtcac	360
ggttggtgga ttcccaagaa aagaagggtat ggagaggaag gatgtgatga ctaagaatgt	420
ctctatttac aagtcccagg cttctgccct tgaaaagcat gctgctgcca actgcaaggt	480
tttggttatt gctaaccag caaataccaa tgcattgatc ttgaaggagt ttgctccatc	540
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<210> 223
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<223> n is a, c, g, or t

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<221> misc_feature

<222> (28)..(29)

<223> n is a, c, g, or t

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<222> (36)..(36)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (44)..(44)

<223> n is a, c, g, or t

<400> 223

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taatcttcgc ggttcgattc cttccgtttc ttcagcaatg gccaaagacc cagttcgtgt 120

cctcgttact ggtgctgcag gccaaattgg ttatgcactt gtccctatga ttgctagggg 180

agtgatgctt ggtcctgatc aacctgtgat cttcacatg cttgatatcc ctccagcagc 240

agagtcattg aatggagtta aaatggagtt ggtggatgct gcatttccac ttcttaaagg 300

cgttgttgct acaactgatg ttgttgaagc atgactgga gtcaatattg cagtcatggt 360

tggtggattc ccaagaaaag aaggatgga gaggaaggat gtgatgacta agaatgtctc 420

tatttacaag tcccaggctt ctgcccttga aaagcatgct gctgccaaact gcaagggttt 480

ggttattgct aaccagcaa ataccaatgc attgatcttg aaggagtttg ctccatctat 540

tccagagaaa aacatttcag ctttgactag acttgatcac aacagggcat tgg 593

<210> 224

<211> 531

<212> DNA

<213> *Trifolium repens*

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<223> n is a, c, g, or t

<220>

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<223> n is a, c, g, or t

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<221> misc_feature

<222> (28)..(28)

<223> n is a, c, g, or t

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<222> (32)..(32)

<223> n is a, c, g, or t

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 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

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 <222> (528)..(528)
 <223> n is a, c, g, or t

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 ttaatcttcc ctgtttgatt ccttcggttc ttcaaaaatg gccaaagacc cagttcgtgt 120
 tctcgtcact ggtgctgcag ggcaaattgg ttatgcactt gtccttatga ttgctagggg 180
 agtgatgctt ggtcctgatc aacctgtgat ccttcacatg cttgatattc ctccagcagc 240
 agagtcattg aatggagtta agatggagtt ggtc gatgct gcatttccac ttcttaaagg 300
 tggttggtgct acaactgatg ttgttgaggc atgcactgga gtcaatattg cagtcatggt 360
 tggtggattc ccaagaaaag aaggtatgga gaggaaggat gtgatgtcta agaacgtctc 420
 tatttacaag tcccaggctt ctgcccttga aaagcatgct gctgccaaact gcaaggnttt 480
 ggttgntgct aaccancaa caccaatgca ttgatcttgn aggaatcngc t 531

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 <212> DNA
 <213> Trifolium repens

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<223> n is a, c, g, or t

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<222> (31)..(31)
<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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actggtgctg caggccaaat tggttatgca cttgtcccta tgattgctag gggagtgatg 180
cttggtcctg atcaacctgt gatccttcac atgcttgata tccctccagc agcagagnca 240
ttgaatggag ttaaaatgga gttggtggat gctgcatttc cacttcttaa aggcgttggt 300
gctacaactg atgttggtga agcatgcact ggagtcaata ttgcagtcac gggtgggtgga 360
ttccaagaa aagaaggat ggagaggaag gatgtgatga ctaagaatgt ctctatttac 420
aagtcccagg cttctgcctt tgaaaagcat gctgctgcc actgcaagg tttggttatt 480
gctaaccag caaatacca tgcatcgatc ttgaaggagt ttgctccatc tattccagag 540
aaaaacattt cagctttgac tagacttgat cac 573

<210> 226
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<212> DNA
<213> Trifolium repens

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<221> misc_feature
<222> (24)..(24)
<223> n is a, c, g, or t

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<221> misc_feature
<222> (30)..(31)
<223> n is a, c, g, or t

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<222> (48)..(48)

<223> n is a, c, g, or t

<400> 226

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tcgcggttcg attccttccg tttcttcagc aatggccaaa gaccagttc gtgtcctcgt	120
tactggtgct gcaggccaaa ttggttatgc acttgtcctt atgattgcta ggggagtgat	180
gcttggtcct gatcaacctg tgatccttca catgcttgat atccctccag cagcagagtc	240
attgaatgga gttaaaatgg agttggcgga tgctgcattt ccacttctta aaggcgttgt	300
tgctacaact gatgttggtg aagcatgcac tggagtcaat attgcagtca tggttggtgg	360
attcccaaga aaagaaggta tggagaggaa ggatgtgatg actaagaatg tctctattta	420
caagtcccag gcttcagccc ttgaaaagca tgctgctgcc aactgcaagg ttttggttat	480
tgctaacca gcaataacca atgcattgat cttgaaggag tttgctccat ctattccaga	540
gaaaaacatt tcagctttga ctagacttga tcacaacagg gcattgggcc aaatttctga	600
aag	603

<210> 227

<211> 597

<212> DNA

<213> *Trifolium repens*

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<222> (20)..(21)

<223> n is a, c, g, or t

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<222> (24)..(24)

<223> n is a, c, g, or t

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<222> (29)..(30)

<223> n is a, c, g, or t

<400> 227

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actggtgctg caggccaaat tggttatgca cttgtcccta tgattgctag gggagtgatg	180
cttggtcctg atcaacctgt gatccttcac atgcttgata tccctccagc agcagagtca	240
ttgaatggag ttaaaatgga gttggtggat gctgcatttc cacttcttaa aggcgttggt	300
gctacaactg atgttggtga agcatgcact ggagtcaata ttgcagtcac ggttggtgga	360

ttcccaagaa aagaaggat ggagaggaag gatgtgatga ctaagaatgt ctctatttac	420
aagtcccagg cttctgccct tgaaaagcat gctgctgcc actgcaagg tttgggtatt	480
gctaaccag caaatccaa tgcattgatc ttgaaggagt ttgctccatc tattccagag	540
aaaaacattt cagctttgac tagacttgat cacaacaggg cattgggcca aatttct	597

<210> 228
 <211> 333
 <212> DNA
 <213> *Trifolium repens*

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 <222> (267)..(268)
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<223> n is a, c, g, or t

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<221> misc_feature

<222> (332)..(333)

<223> n is a, c, g, or t

<400> 228

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ccttctatatt cttcaaaaat ggccaaagac ccagttcgtg ttctcgtcac tggtgctgca 120

ggccaaattg gttatgcact tgtccctatg attgctaggg gagtgatgct tggtcctgat 180

caacctgtga tccttgacat gcttgatatt gctgcagnag nagagtnatt gaatggagct 240

aaaatggagc tgccggatgc tgnattnnaa cttcttacag gcgccgccgc taccactgat 300

gctgcccaac catgccctgc acccatatnc cnn 333

<210> 229

<211> 567

<212> DNA

<213> Trifolium repens

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<222> (18)..(18)

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<223> n is a, c, g, or t

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<222> (126)..(126)

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<222> (378)..(378)

<223> n is a, c, g, or t

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<222> (551)..(551)

<223> n is a, c, g, or t

<400> 229

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tcgattcctt ccacttcttc aaaaatggcc naagacccag ttcgtgttct cgtcactggg	120
gctgcngggc aaattgggta tgcacttgtc cctatgattg ctaggggagt gatgcttggg	180
cctgatcaac ctgtgatcct acacatgctt gatattccac ccgcagcaga gtcattgaat	240
ggagttaaga tggagttggg cgatgctgca tttccacttc ttaaagggtg tgttgctaca	300
actgatgttg ttgaggcatg cactggagtc aatatcgag tcatggttgg tggattccca	360
agaaaagaag gtatgganag gaaggatgtt atgtctaaga acgtctctat ttacaagtcc	420
caagcttctg cccttgaaaa gcatgctgct gccaaactgca aggttttggg tgttgctaac	480
ccagcaaaca ccaatgcatt gatcttgaag gaatttgctc catctattcc agagaaaaac	540
atttcttggt ngactagact tgatcac	567

<210> 230
 <211> 569
 <212> DNA
 <213> *Trifolium repens*

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<220>
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 <222> (27)..(27)
 <223> n is a, c, g, or t

<400> 230	
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gtttgattcc ttccagttct tcaaaaatgg ccaaagaccc agttcgtggt ctgcactg	120
gtgctgcagg gcaaattggg tatgcacttg tccctatgat tgctagggga gtgatgcttg	180
gtcctgatca acctgtgatc cttcacatgc ttgatattcc tccagcagca gagtcattga	240
atggagttaa gatggagttg gtcgatgctg catttccact tcttaaagggt gttgttgcta	300
caactgatgt tgttgaggca tgcactggag tcaatattgc agtcatgggt ggtggattcc	360
caagaaaaga aggtatggag aggaaggatg tgatgtctaa gaacgtctct atttacaagt	420
cccaggcttc tgcccttgaa aagcatgctg ctgccaaactg caaggttttg gttgttgcta	480
accagcaac accaatgcat tgatcttgaa ggaatttgct ccatctattc cagagaaaaa	540
catttcttgt ttgactagac ttgatcacc	569

<210> 231
 <211> 592
 <212> DNA
 <213> *Trifolium repens*

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<223> n is a, c, g, or t

<220>
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<222> (28)..(28)
<223> n is a, c, g, or t

<220>
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<222> (52)..(52)
<223> n is a, c, g, or t

<400> 231
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tgttcgattc cttccacttc ttcaaaaatg gccaaagacc cagttcgtgt tctcgtcact 120
gggtgctgcag ggcaaattgg ttatgcactt gtccctatga ttgctagggg agtgatgctt 180
ggtcctgatc aacctgtgat cctacacatg cttgatattc caccgcgagc agagtcattg 240
aatggagtta agatggagtt ggtcgaatgt gcattttccac ttcttaaagg tggtgttgct 300
acaactgatg ttgttgaggc atgcactgga gtcaatatcg cagtcattgg tggtggattc 360
ccaagaaaag aaggtatgga gaggaaggat gttatgtcta agaacgtctc tatttacaag 420
tccaagctt ctgcccttga aaagcatgct gctgccaact gcaagggttt gggtgttgct 480
aaccagcaa acaccaatgc attgatcttg aaggaatttg ctccatctat tccagagaaa 540
aacatttctt gtttgactag acttgatcac aacagggcat tgggccaaat tt 592

<210> 232
<211> 585
<212> DNA
<213> *Trifolium repens*

<220>
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<220>
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<222> (10)..(10)
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 attccttccg tttcttcagc aatggccaaa gacccagttc gtttcctcgt tactggtgct 120
 gcaggccaaa ttggttatgc acttgctcct atgattgcta ggggagtgat gcttggctct 180
 gatcaacctg tgatccttca catgcttgat atccctccag cagcagagtc attgaatgga 240
 gttaaaatgg agttggtgga tgctgcattt ccacttctta aaggcgttgt tgctacaact 300
 gatgttggtg aagcatgcac tggagtcaat attgcagtca tggttggtgg attccaaga 360
 aaagaaggta tggagaggaa ggatgtgatg actaagaatg tctctattta caagtcccag 420
 gcttctgccc ttgaaaagca tgctgctgcc aactgcaagg ttttggttat tgctaaccga 480
 gcaaatacca atgcattgat cttgaaggag tttgctccat ctattccaga gaaaaacatt 540
 tcagctttga ctagacttga tcacaacagg gcattgggcc aaatt 585

<210> 233
 <211> 462
 <212> DNA
 <213> Trifolium repens

<220>
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 <222> (10)..(10)
 <223> n is a, c, g, or t

<220>
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 <222> (13)..(13)
 <223> n is a, c, g, or t

<220>
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 <222> (16)..(16)
 <223> n is a, c, g, or t

<220>
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 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (87)..(87)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (392)..(392)
 <223> n is a, c, g, or t

<400> 233
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cttctatttc ttcaaaaatg gccaaanacc cagttcgtgt tctcgtcact ggtgctgcag	120
gccaaattgg ttatgcactt gtccctatga ttgctagggg agtgatgctt ggtcctgatc	180
aacctgtgat ccttcacatg cttgatattc ctccagcagc agagtcattg aatggagtta	240
aaatggagtt ggtggatgct gcatttccac ttcttaaagg tgttggtgct acaactgatg	300
ttgttgaagc atgcactgga gtcaatattg cagtcatggt tgggtggattc ccaagaaaag	360
aaggatgga gaggaaggat gtgatgacta anaatgtctc tatttacaag tcccaggctt	420
ctgcccttga aaagcatgct gctgccaaact gcaagggtttt gg	462

<210> 234
 <211> 573
 <212> DNA
 <213> Trifolium repens

<220>
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 <222> (11)..(12)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (15)..(15)
 <223> n is a, c, g, or t

<400> 234	
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ttcgattcct tccacttctt caaaaatggc caaagaccca gttcgtgttc tcgtcactgg	120
tgctgcaggg caaattgggt atgcacttgt ccctatgatt gctaggggag tgatgcttgg	180
tcctgatcaa cctgtgatcc tacacatgct tgatattcca cccgcagcag agtcattgaa	240
tggagttaag atggagttgg tcgatgctgc atttccactt cttaaagggtg ttgttgctac	300
aactgatgtt gttgaggcat gcaactggagt caatatcgca gtcattggtg gtggattccc	360
aagaaaagaa ggtatggaga ggaaggatgt tatgtctaag aacgtctcta tttacaagtc	420
ccaagcttct gcccttgaaa agcatgctgc tgccaactgc aagggttttg ttgttgctaa	480
cccagcaaac accaatgcat tgatcttgaa ggaatttgct ccatctattc cagagaaaaa	540
catttcttgt ttgactagac ttgatcacia cag	573

<210> 235
 <211> 603
 <212> DNA
 <213> Trifolium repens

<220>
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 <222> (2)..(2)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (8)..(8)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (16)..(16)
 <223> n is a, c, g, or t

<220>
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 <222> (19)..(19)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (26)..(26)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (50)..(50)
 <223> n is a, c, g, or t

<400> 235
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 tttgattcct tccgttcttc aaaaatggcc aaagaccagc ttcgtgttct cgtcactggg 120
 gctgcagggc aaattgggta tgcacttgct cctatgattg ctaggggagt gatgcttggt 180
 cctgatcaac ctgtgatcct acacatgctt gatattccac ccgcagcaga gtcattgaat 240
 ggagttaaga tggagtgggt cgatgctgca tttccacttc tttaaagggtgt tgttgctaca 300
 actgatgttg ttgaggcatg cactggagtc aatatcgagc tcatgggttg tggattccca 360
 agaaaagaag gtatggagag gaaggatgtt atgtctaaga acgtctctat ttacaagtcc 420
 caagcttctg cccttgaaaa gcatgctgct gccaaactgca aggttttggt tgttgctaac 480
 ccagcaaaca ccaatgcatt gatcttgaag gaatttgctc catctattcc agagaaaaac 540
 atttcttggt tgactagact tgatcacaac agggcattgg gccaaatttc tgaaagattg 600
 aat 603

<210> 236
 <211> 550
 <212> DNA
 <213> Trifolium repens

<220>
 <221> misc_feature
 <222> (6)..(6)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (17)..(17)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (462)..(462)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (482)..(482)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (532)..(532)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (545)..(545)

<223> n is a, c, g, or t

<400> 236

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gattccttct atttcttcaa aaatggccaa agaccagatt cgtgttctcg tcaactggtgc	120
tgcaggccaa attggttatg cacttgctcc tatgattgct aggggagtga tgcttggtcc	180
tgatcaacct gtgatccttc acatgcttga tattcctcca gcagcagagt cattgaatgg	240
agttaaaatg gagttggtgg atgctgcatt tccacttctt aaagggtgttg ttgctacaac	300
tgatgttggt gaagcatgca ctggagtcaa tattgcagtc atggttggtg gattcccaag	360
aaaagaaggt atggagagga aggatgtgat gactaagaat gtctctatatt acaagtccca	420
ggcttctgcc cttgaaaagc atgctgctgc caactgcaag gntttgggta ttgctaaccc	480
ancaaatacc aatgcattga tcttgaagga gtttgctcca tctattccag anaaaaacat	540
ttcancctttg	550

<210> 237

<211> 591

<212> DNA

<213> Trifolium repens

<220>

<221> misc_feature

<222> (5)..(5)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (12)..(12)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (15)..(15)

<223> n is a, c, g, or t

<400> 237
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 attccttccg ttcttcaaaa atggccaaag acccagttcg tgttctcgtc actggtgctg 120
 cagggcaa at tggttatgca cttgtcccta tgattgctag gggagtgatg cttggtcctg 180
 atcaacctgt gatccttcac atgcttgata ttcctccagc agcagagtca ttgaatggag 240
 ttaagatgga gttggtcgat gctgcatttc cacttcttaa aggtgttggt gctacaactg 300
 atgttggtga ggcattgcact ggagtcaata ttgcagtcac ggttggtgga ttcccaagaa 360
 aagaaggat ggagaggaag gatgtgatgt ctaagaacgt ctctatttac aagtcccagg 420
 cttctgccct tgaagagcat gctgctgcca actgcaagggt tttggttggt gctaaccag 480
 caacaccaat gcattgatct tgaaggaatt tgctccatct attccagaga aaaacatttc 540
 ttgtttgact agacttgatc acaacagggc attgggcca atttctgaaa g 591

<210> 238
 <211> 571
 <212> DNA
 <213> *Trifolium repens*

<220>
 <221> misc_feature
 <222> (4)..(4)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (16)..(17)
 <223> n is a, c, g, or t

<400> 238
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 ttctatttct tcaaaaatgg ccaaagaccc agttcgtggt ctcgtcactg gtgctgcagg 120
 ccaaattggt tatgcacttg tccctatgat tgctagggga gtgatgcttg gtcctgatca 180
 acctgtgatc cttcacatgc ttgatattcc tccagcagca gagtcattga atggagttaa 240
 aatggagttg gtggatgctg catttccact tcttaaagggt gttgttgcta caactgatgt 300
 tgttgaagca tgcactggag tcaatattgc agtcatgggt ggtggattcc caagaaaaga 360
 aggtatggag aggaaggatg tgatgactaa gaatgtctct atttacaagt cccaggcttc 420
 tgcccttgaa aagcatgctg ctgccaactg caagggtttg gttattgcta acccagcaaa 480
 taccaatgca ttgatcttga aggagtttgc tccatctatt ccagagaaaa acatttcagc 540
 tttgactaga cttgatcaca acagggcatt g 571

<210> 239
 <211> 433
 <212> DNA

<213> Trifolium repens

<220>
<221> misc_feature
<222> (9)..(9)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (28)..(28)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (358)..(358)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (386)..(386)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (402)..(402)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (404)..(406)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (409)..(409)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (413)..(413)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (416)..(416)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (430)..(430)
<223> n is a, c, g, or t

<400> 239
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tcttcaaaaa tggccaaaga ccagttcgt gttctcgtca ctggtgctgc aggccaaatt 120
ggttatgcac ttgtccctat gattgctagg ggagtgatgc ttggtcctga tcaacctgtg 180
atccttcaca tgcttgatat tcctccagca gcagagtcatt tgaatggagt taaaatggag 240
ttggtggatg ctgcatttcc acttcttaaa ggtgttggtg ctacaactga tgttgttgaa 300

gcatgcactg gagtcaatat tgcagtcacg gttggtggat tcccaagaaa agaaggtntg	360
gagaggaagg atgtgatgac taagantgtc tctatttaca anannnagnc ttntgncctt	420
gaaaaagatn ctg	433

<210> 240
 <211> 585
 <212> DNA
 <213> *Trifolium repens*

<220>
 <221> misc_feature
 <222> (10)..(10)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (35)..(35)
 <223> n is a, c, g, or t

<400> 240	
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tcttcaaaaa tggccaaaga ccagttcgt gttctcgta ctggtgctgc agggcaaatt	120
ggttatgcac ttgtccctat gattgctagg ggagtgatgc ttggtcctga tcaacctgtg	180
atccttcaca tgcttgatat tctccagca gcagagtcac tgaatggagt taagatggag	240
ttggtcgatg ctgcatttcc acttcttaaa ggtgttggtg ctacaactga tgttggtgag	300
gcatgcactg gagtcaatat tgcagtcacg gttggtggat tcccaagaaa agaaggtatg	360
gagaggaagg atgtgatgtc taagaacgtc tctatttaca agtcccaggc ttctgccctt	420
gaaaagcatg ctgctgcaa ctgcaagggt ttggttggtg ctaaccagc aaacaccaat	480
gcattgatct tgaaggaatt tgctccatct attccagaga aaaacatttc ttgtttgact	540
agacttgatc acaacagggc attgggcaa atttctgaaa gattg	585

<210> 241
 <211> 610
 <212> DNA
 <213> *Trifolium repens*

<220>
 <221> misc_feature
 <222> (6)..(6)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (30)..(30)
 <223> n is a, c, g, or t

<400> 241	
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caaaaatggc caaagaccca gttcgtgttc tcgtcactgg tgctgcaggc caaattgggt	120
atgcacttgt ccctatgatt gctaggggag tgatgcttgg tcctgatcaa cctgtgatcc	180
ttcacatgct tgatattcct ccagcagcag agtcattgaa tggagttaaa atggagttgg	240
tggatgctgc atttccactt cttaaagggtg ttgttgctac aactgatgtt gttgaagcat	300
gcactggagt caatattgca gtcattggtg gtggattccc aagaaaagaa ggtatggaga	360
ggaaggatgt gatgactaag aatgtctcta ttacaagtc ccaggcttct gcccttgaaa	420
agcatgctgc tgccaactgc aagggttttg ttattgctaa ccagcaaat accaatgcat	480
tgatcttgaa ggagtttgct ccatctattc cagagaaaaa catttcagct ttgactagac	540
ttgatcaca cagggcattg ggccaaattt ctgaaagatt gaatattcaa gtttctgatg	600
taaagaatgt	610

<210> 242
 <211> 568
 <212> DNA
 <213> Trifolium repens

<220>
 <221> misc_feature
 <222> (23)..(23)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (53)..(53)
 <223> n is a, c, g, or t

<400> 242	
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ccaaagaccc agttcgtgtt ctcgtcactg gtgctgcagg gcaaattggg tatgcacttg	120
tccctatgat tgctagggga gtgatgcttg gtcctgatca acctgtgatc ctacacatgc	180
ttgatattcc acccgagca gagtcattga atggagttaa gatggagttg gtcgatgctg	240
catttccact tcttaaagggt gttgttgcta caactgatgt tgttgaggca tgcactggag	300
tcaatatcgc agtcattggt ggtggattcc caagaaaaga aggtatggag aggaaggatg	360
ttatgtctaa gaacgtctct atttacaagt cccaagcttc tgcccttgaa aagcatgctg	420
ctgccaactg caagggtttg gttgttgcta acccagcaaa caccaatgca ttgatcttga	480
aggaatttgc tccatctatt ccagagaaaa acatttcttg tttgactaga cttgatcaca	540
acagggcatt gggccaaatt tctgaaag	568

<210> 243
 <211> 558
 <212> DNA
 <213> Trifolium repens

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<220>
<221> misc_feature
<222> (21)..(21)
<223> n is a, c, g, or t

<400> 243
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caaagacca gttcgtgttc tcgtcactgg tgctgcaggg caaattgggt atgcacttgt      120
ccctatgatt gctaggggag tgatgcttgg tcctgatcaa cctgtgatcc tacacatgct      180
tgatattcca cccgcagcag agtcattgaa tggagttaag atggagttag tcgatgctgc      240
atttccactt cttaaagggt ttgttgctac aactgatgtt gttgaggcat gcactggagt      300
caatatcgca gtcattggtt gtggattccc aagaaaagaa ggtatggaga ggaaggatgt      360
tatgtctaag aacgtctcta ttacaagtc ccaagcttct gcccttgaaa agcatgctgc      420
tgccaactgc aagggttttg ttgttgctaa ccagcaaac accaatgcat tgatcttgaa      480
ggaatttgct ccatctattc cagagaaaaa catttcttgt ttgactagac ttgatcacia      540
cagggcattg ggccaaat                                     558

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<210> 244
<211> 752
<212> DNA
<213> Trifolium repens

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<220>
<221> misc_feature
<222> (2)..(3)
<223> n is a, c, g, or t

<400> 244
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agaccaggtt cgtgttctcg tcaactgggtgc tgcagggcaa attgggttatg cacttggtccc      120
tatgattgct aggggagtgga tgcttggtcc tgatcaacct gtgatccttc acatgcttga      180
tattcctaca gcagcagagt cattgaatgg agttaagatg gagttgggtcg atgctgcatt      240
tccacttctt aaagggtgtt ttgctacaac tgatgttggt gaggcattgca ctggagtcaa      300
tattgcagtc atggttggtg gattcccaag aaaagaagggt atggagagga aggatgtgat      360
gtctaagaac gtctctatatt acaagtccca ggcttctgcc cttgaaaagc atgctgctgc      420
caactgcaag gttttggttg ttgctaacct agcaaacacc aatgcattga tcttgaagga      480
atttgctcca tctattccag agaaaaacat ttcttggttg actagacctg atcacaacag      540
ggcattgggc caaatttctg aaagattgaa tgttcaagtt tctgatgtaa agaattgtcat      600
tatctggggg aatcattcat caactcagta tcctgatgtc aaccatgcaa ctgttaacac      660
ccccgctggg gagaagcctg tccgtgagct tgtttctgat gacgcctggt tgaatggaga      720

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attcatatct accgttcaac aacgtggtgc tg

752

<210> 245
<211> 583
<212> DNA
<213> Trifolium repens

<220>
<221> misc_feature
<222> (17)..(17)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (46)..(46)
<223> n is a, c, g, or t

<400> 245
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cccagttcgt gttctcgtca ctggtgctgc aggccaaatt gggtatacac ttgtccctat 120
gattgctagg ggagtgatgc ttggtcctga tcaacctgtg atccttcaca tgcttgatat 180
tcctccagca gcagagtcac tgaatggagt taaaatggag ttggtggatg ctgcatttcc 240
acttcttaaa ggtgttggtg ctacaactga tggtgttgaa gcatgcactg gagtcaatat 300
tgcagtcacg gttggtggat tcccaagaaa agaaggatg gagaggaagg atgtgatgac 360
taagaatgtc tctatttaca agtcccaggc ttctgccctt gaaaagcatg ctgctgccaa 420
ctgcaagggt ttggttattg ctaaccagc aaataccaat gcattgatct tgaaggagtt 480
tgctccatct attccagaga aaaacatttc agctttgact agacttgatc acaacagggc 540
attgggccaa atttctgaaa gattgaatat tcaagtttct gat 583

<210> 246
<211> 573
<212> DNA
<213> Trifolium repens

<220>
<221> misc_feature
<222> (11)..(11)
<223> n is a, c, g, or t

<400> 246
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tcgtgttctc gtcactggtg ctgcagggca aattggttat gcacttgctc ctatgattgc 120
taggggagtg atgcttggtc ctgatcaacc tgtgatcctt cacatgcttg atattcttcc 180
agcagcagag tcattgaatg gagttaagat ggagttggtc gatgctgcat ttccacttct 240
taaagggtgt gttgctacaa ctgatgttgt tgaggcatgc actggagtca atattgcagt 300
catggttggt ggattcccaa gaaaagaagg tatggagagg aaggatgtga tgtctaagaa 360

cgtctctatt tacaagtccc aggcttctgc ccttgaaaag catgctgctg ccaactgcaa	420
ggttttgggtt gttgctaacc cagcaaacac caatgcattg atcttgaagg aatttgctcc	480
atctattcca gagaaaaaca tttcttggtt gactagactt gatcacaaca gggcattggg	540
ccaaatttct gaaagattga atgttcaagt ttc	573

<210> 247
 <211> 562
 <212> DNA
 <213> Trifolium repens

<220>
 <221> misc_feature
 <222> (24)..(24)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (38)..(38)
 <223> n is a, c, g, or t

<400> 247	
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gcagagtcac tgaatggagt taaaatggag ttgggtggatg ctgcatttcc acttcttaaa	120
ggcattggtt ctacaactga tgttggtgaa gcatgcaactg gagtcaatat tgcagtcagt	180
gttgggtgat tccaagaaa agaaggatg gagaggaagg atgtgatgac taagaatgtc	240
tctatttaca agtcccaggc ttctgccctt gaaaagcaag ctgctgcaa ctgcaagggt	300
ttgggttattg ctaaccagc aaataccaat gcattgatct tgaaggagtt tgctccatct	360
attccagaga aaaacatttc agctttgact agacttgatc acaacagggc attgggcaa	420
atttctgaaa gattgaatat tcaagtttct gatgtaaaga atgtcattat ctggggtaat	480
cattcatcaa ctgagtatcc tgatgtcaac catgcaactg ttaacacccc cgccggggag	540
aagcctgtcc gtgaacttgt tt	562

<210> 248
 <211> 515
 <212> DNA
 <213> Trifolium repens

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (9)..(9)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (11)..(11)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (17)..(17)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (22)..(22)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (367)..(367)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (427)..(427)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (482)..(482)
 <223> n is a, c, g, or t

<220>
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 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

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 <222> (510)..(510)
 <223> n is a, c, g, or t

<400> 248
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 attgcagtca tggttggtgg attcccaaga aaagaaggta tggagaggaa ggatgtgatg 180
 tctaagaacg tctctattta caagtcccag gcttctgccc ttgaaaagca tgctgctgcc 240
 aactgcaagg ttttggttgt tgctaacca gcaaacacca atgcattgat cttgaaggaa 300
 tttgctccat ctattccaga gaaaaacatt tcttgtttga ctagacttga tcacaacagg 360
 gcattgngcc aaatttctga aagattgaat gtccaagttt ctgatgtaaa gaatgtcatt 420
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 cncgctgnng agaagcctgn ccgtgagctn gtttc 515

<210> 249
 <211> 598
 <212> DNA
 <213> *Trifolium repens*

<220>
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 <222> (20)..(20)
 <223> n is a, c, g, or t

<400> 249
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 cttcttaaag gtgttggtgc tacaactgat gttgttgagg catgcactgg agtcaatatt 120
 gcagtcatgg ttggtggatt cccaagaaaa gaaggatgg agaggaagga tgtgatgtct 180
 aagaacgtct ctatttataa gtcccaggct tctgcccttg aaaagcatgc tgctgccaac 240
 tgcaagggtt ttggttggtgc taaccagca aacaccaatg cattgatctt gaaggaattt 300
 gctccatcta ttccagagaa aaacatttct tgtttgacta gacttgatca caacagggca 360
 ttgggcaaaa tttctgaaag attgaatgtc caagtttctg atgtaaagaa tgtcattatc 420
 tggggtaatc attcatcaac tcagtatcct gatgtcaacc atgcaactgt taacaccccc 480
 gctggggaga agcctgtccg tgagcttggt tctgatgacg cctgggttgaa tggagaattc 540
 atatctaccg ttcaacaacg tgggtgctgca attattaagg ctagaaagct ttcaagtg 598

<210> 250
 <211> 603
 <212> DNA
 <213> *Trifolium repens*

<400> 250
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 tgcattgatc ttgaaggaat ttgctccatc tattccagag aaaaacattt cttgtttgac 180
 tagacttgat cacaacaggg cattgggcca aatttctgaa agattgaatg ttcaagtttc 240
 tgatgtaaag aatgtcatta tctggggtaa tcattcatca actcagtatc ctgatgtcaa 300
 ccatgcaact gttaacaccc ccgctgggga gaagcctgtc cgtgagcttg tttctgatga 360
 cgcctgggtg aatggagaat tcatatctac cgttcaacaa cgtgggtgctg caattattaa 420
 ggctagaaaag ctttcaagcg cactatccgc tgctagcgt gcttgcgacc acattcgca 480
 ttgggttctt ggaactcccc agggcacctt cgtttcaatg ggagtgtatt ctgatggttc 540
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 gaa 603

<210> 251

<211> 695
 <212> DNA
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 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

<400> 251
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 tgcattgatc ttgaaggaat ttgctccatc tattccagag aaaaacattt cttgtttgac 180
 tagacttgat cacaacaggg cattgggcca aatttctgaa agattgaatg ttcaagtttc 240
 tgatgtaaag aatgtcatta tctggggtaa tcattcatca actcagtatc ctgatgtcaa 300
 ccatgcaact gttaacaccc ccgctgggga gaagcctgtc cgtgagcttg tttctgatga 360
 cgcctggttg aatggagaat tcatatctac cgttcaacaa cgtggtgctg caattattaa 420
 ggctagaaaag ctttcaagcg cactatccgc tgctagcgtc gcttgcgacc acattcgca 480
 ttgggttctt ggaactcccc agggcacctt cgtttcaatg ggagtgtatt ctgatggttc 540
 ttacaacgta ccagctggac tcatctattc attccctgtc accactgcta atggggaatg 600
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<210> 252
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 <212> DNA
 <213> Trifolium repens

<220>
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<222> (5)..(5)
 <223> n is a, c, g, or t

 <220>
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 <222> (46)..(46)
 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

 <220>
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 <222> (812)..(812)
 <223> n is a, c, g, or t

 <220>
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 <223> n is a, c, g, or t

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 <222> (823)..(823)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (851)..(851)
 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
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 <223> n is a, c, g, or t

 <220>
 <221> misc_feature
 <222> (933)..(933)
 <223> n is a, c, g, or t

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 <221> misc_feature
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 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

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<221> misc_feature
<222> (1403)..(1403)
<223> n is a, c, g, or t

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ccgtcgatgc tcagatccgt ccaatcagcc gtctcccgcg cctcttctca cctaaccgcg 180
cgtggctatg ctaccgaacc agttccagaa cgcaagggtg ccatttctcg cgctgccggc 240
gggatcggcc agcctctctc tcttctcatg aagctcaacc ctctcgtttc aaccctatct 300
ctttatgata ttgctggaac ccctggtgtc gccgctgatg tcagccacat caactccaga 360
tctgaggtaa ctgggtatgc aggtgaagaa gagcttgga aagctttgga gggtgctgat 420
gttggtataa ttcttctgtg tgtgcccaga aagcctggaa tgactcgtga tgatcttttc 480
aatattaacg ctggcattgt caagtcactt gccactgcta tttctaagta ctgcccccat 540
gcccttggtt acatgataag caaccctgtg aactccaccg ttccattgct tgcagagggt 600
ttcaagaagg cagggacata tgacgagaag agattgtttg gggttacaac cttgatgta 660
gtcagggcaa aaactttcta tgccgggaaa gctaaagttc cagttgccga ggtcaatgta 720
cctgttatag gaggccatgc aggagttact attcttccat tattttntca ggcaacacct 780
caagccaatc tgggtgatga tacccttaag gntttaacgg nanggacaca agatggagga 840
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tgctcatatg tgcaatccaa tatcatctct gaccttcctt tctttgcttc caaggtaggg 1020
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caaggccttg aaaacctcaa ggctgaactc aaatcatcta ttgaaaaggg aatcaaattt 1140
gcctcccagt aatcgaacat gtcatacatt actggatttt tccatttaga accagatcaa 1200
attttgcaaa ttcagaacaa ttgtttgtaa tgttgccggt aggtataccc ctagatttaa 1260
taagtaaadc tgcgagagca gtttattgct gcagggactg aaattaaaac cagttttagg 1320
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gggtgntggn cancgataca canccccc 1408

<210> 253
<211> 345
<212> PRT
<213> *Trifolium repens*

<220>
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<222> (218)..(218)
<223> Xaa can be any naturally occurring amino acid

<220>
 <221> misc_feature
 <222> (233)..(233)
 <223> Xaa can be any naturally occurring amino acid

<220>
 <221> misc_feature
 <222> (236)..(237)
 <223> Xaa can be any naturally occurring amino acid

<220>
 <221> misc_feature
 <222> (246)..(246)
 <223> Xaa can be any naturally occurring amino acid

<220>
 <221> misc_feature
 <222> (270)..(270)
 <223> Xaa can be any naturally occurring amino acid

<220>
 <221> misc_feature
 <222> (273)..(273)
 <223> Xaa can be any naturally occurring amino acid

<400> 253

Met Arg Pro Ser Met Leu Arg Ser Val Gln Ser Ala Val Ser Arg Ala
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Ser Ser His Leu Thr Arg Arg Gly Tyr Ala Thr Glu Pro Val Pro Glu
 20 25 30

Arg Lys Val Ala Ile Leu Gly Ala Ala Gly Gly Ile Gly Gln Pro Leu
 35 40 45

Ser Leu Leu Met Lys Leu Asn Pro Leu Val Ser Thr Leu Ser Leu Tyr
 50 55 60

Asp Ile Ala Gly Thr Pro Gly Val Ala Ala Asp Val Ser His Ile Asn
 65 70 75 80

Ser Arg Ser Glu Val Thr Gly Tyr Ala Gly Glu Glu Glu Leu Gly Lys
 85 90 95

Ala Leu Glu Gly Ala Asp Val Val Ile Ile Pro Ala Gly Val Pro Arg
 100 105 110

Lys Pro Gly Met Thr Arg Asp Asp Leu Phe Asn Ile Asn Ala Gly Ile
 115 120 125

Val Lys Ser Leu Ala Thr Ala Ile Ser Lys Tyr Cys Pro His Ala Leu
 130 135 140

Val Asn Met Ile Ser Asn Pro Val Asn Ser Thr Val Pro Ile Ala Ala
 145 150 155 160
 Glu Val Phe Lys Lys Ala Gly Thr Tyr Asp Glu Lys Arg Leu Phe Gly
 165 170 175
 Val Thr Thr Leu Asp Val Val Arg Ala Lys Thr Phe Tyr Ala Gly Lys
 180 185 190
 Ala Lys Val Pro Val Ala Glu Val Asn Val Pro Val Ile Gly Gly His
 195 200 205
 Ala Gly Val Thr Ile Leu Pro Leu Phe Xaa Gln Ala Thr Pro Gln Ala
 210 215 220
 Asn Leu Gly Asp Asp Thr Leu Lys Xaa Leu Thr Xaa Xaa Thr Gln Asp
 225 230 235 240
 Gly Gly Thr Glu Val Xaa Thr Ala Lys Ala Gly Lys Gly Ser Ala Thr
 245 250 255
 Leu Ser Met Ala Tyr Ala Gly Ala Ile Phe Ala Asp Ala Xaa Leu Lys
 260 265 270
 Xaa Leu Asn Gly Val Pro Asp Val Ile Glu Cys Ser Tyr Val Gln Ser
 275 280 285
 Asn Ile Ile Ser Asp Leu Pro Phe Phe Ala Ser Lys Val Arg Ile Gly
 290 295 300
 Lys Asn Gly Val Glu Glu Ile Leu Gly Leu Gly Ser Leu Thr Asp Phe
 305 310 315 320
 Glu Gln Gln Gly Leu Glu Asn Leu Lys Ala Glu Leu Lys Ser Ser Ile
 325 330 335
 Glu Lys Gly Ile Lys Phe Ala Ser Gln
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<210> 254
 <211> 537
 <212> DNA
 <213> Trifolium repens

<220>
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 <222> (5)..(5)
 <223> n is a, c, g, or t
 <220>

<221> misc_feature
<222> (16)..(16)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (31)..(31)
<223> n is a, c, g, or t

<400> 254
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cgatgctcag atccgtccaa tcagccgtat cccgcgcctc ctctcaccta acccgccgtg 180
gctatgctac cgaaccagtt ccagaacgca aggtggccat tctcggtgct gccggcggga 240
tcggacagcc tctctctctt ctcatgaagc tcaaccctct cgtttcaacc ctatctcttt 300
atgatattgc tggaaccctt ggtgtcgcgc ctgatgtcag ccacatcaac tccagatctg 360
aggtaactgg gtatgcaggt gaagaagagc ttggaaaagc tttggagggt gctgatgttg 420
ttataattcc tgctggtgtg cccagaaagc ctggaatgac tcgtgatgat cttttcaata 480
ttaacgctgg cattgtcaag tcacttgcca ctgctatttc taagtactgc ccccatg 537

<210> 255
<211> 608
<212> DNA
<213> *Trifolium repens*

<220>
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<222> (4)..(4)
<223> n is a, c, g, or t

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<221> misc_feature
<222> (17)..(17)
<223> n is a, c, g, or t

<400> 255
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tgctcagatc cgtccaatca gccgtatccc gcgcctcctc tcacctaacc cgccgtggct 180
atgctaccga accagttcca gaacgcaagg tggccattct cgggtgctgcc ggcgggatcg 240
gacagcctct ctctcttctc atgaagctca accctctcgt ttcaacccta tctctttatg 300
atattgctgg aacccttggg gtcgccgctg atgtcagcca catcaactcc agatctgagg 360
taactgggta tgcaggtgaa gaagagcttg gaaaagcttt ggagggtgct gatgttggtta 420
taattcctgc tggtgtgccc agaaagcctg gaatgactcg tgatgatctt ttcaatatta 480
acgctggcat tgtcaagtca cttgccactg ctattttctaa gtactgcccc catgcccttg 540

ttaacatgat aagcaaccct gtgaactcca ccgttcccat tgctgcagag gttttcaaga	600
aggcaggg	608

<210> 256
 <211> 575
 <212> DNA
 <213> Trifolium repens

<220>
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 <222> (2)..(3)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (33)..(33)
 <223> n is a, c, g, or t

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caatcagccg tctcccgcg ctcttctcac ctaaccgccc gtggctatgc taccgaacca	180
gttccagaac gcaaggtggc cattctcggc gctgccggcg ggatcggcca gcctctctct	240
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cctggtgtcg ccgctgatgt cagccacatc aactccagat ctgaggtaac tgggtatgca	360
ggtgaagaag agcttggaag agctttggag ggtgctgatg ttgttataat tcctgccggt	420
gtgcccagaa agcctggaat gactcgtgat gatcttttta atattaatgc tggcattgtc	480
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<210> 257
 <211> 563
 <212> DNA
 <213> Trifolium repens

<220>
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 <222> (2)..(2)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (13)..(13)
 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

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 <222> (24)..(24)
 <223> n is a, c, g, or t

<220>
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 <222> (27)..(27)
 <223> n is a, c, g, or t

<400> 257
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 ggtggccatt ctcggtgctg ccggcgggat cggacagcct ctctctcttc tcatgaagct 240
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 tgatgtcagc cacatcaact ccagatctga ggtaactggg tatgcaggtg aagaagagct 360
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 tggaatgact cgtgatgatc ttttcaatat taacgctggc attgtcaagt cacttgccac 480
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 caccgttccc attgctgcag agg 563

<210> 258
 <211> 583
 <212> DNA
 <213> Trifolium repens

<220>
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 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (18)..(18)
 <223> n is a, c, g, or t

<220>
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 <222> (22)..(22)
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 cgcctcttct cacctaacct gccgtggcta tgctaccgaa ccagttccag aacgcaaggt 180
 ggccattctc ggcgctgccg gcgggatcgg ccagcctctc tctcttctca tgaagctcaa 240
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tgtcagccac atcaactcca gatctgaggt aactgggtat gcaggtgaag aagagcttgg	360
aaaagctttg gaggggtgctg atgttggttat aattcctgcc ggtgtgcca gaaagcctgg	420
aatgactcgt gatgatcttt tcaatattaa cgctggcatt gtcaagtcac ttgccactgc	480
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cgttccatt gctgcagagg ttttcaagaa ggcagggaca tat	583

<210> 259
 <211> 598
 <212> DNA
 <213> Trifolium repens

<220>
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 <222> (2)..(2)
 <223> n is a, c, g, or t

<220>
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 <223> n is a, c, g, or t

<220>
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 <222> (18)..(18)
 <223> n is a, c, g, or t

<220>
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gccattctcg gcgctgccgg cgggatcggc cagcctctct ctcttctcat gaagctcaac	240
cctctcgttt caaccctatc tctttatgat attgctggaa cccctgggtgt cgccgctgat	300
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atgactcgtg atgatctttt caatattaac gctggcattg tcaagtcact tgccactgct	480
atttctaagt actgccccca tgcccttgtt aacatgataa gcaaccctgt gaactccacc	540
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<210> 260
 <211> 827
 <212> DNA
 <213> Trifolium repens

<220>
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 <223> n is a, c, g, or t

<220>
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 <222> (718)..(718)
 <223> n is a, c, g, or t

<220>
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 <223> n is a, c, g, or t

<220>
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 <223> n is a, c, g, or t

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<220>
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<220>
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 <222> (791)..(791)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (806)..(806)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (813)..(813)

<223> n is a, c, g, or t

<400> 260

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cgcgccctctt ctcacctaac ccgccgtggc tatgctaccg aaccagttcc agaacgcaag    180
gtggccattc tcggcgctgc cggcgggata ggccagcctc tctctcttct catgaagctc    240
aaccctctcg tttcaaccct atctctttat gatattgctg gaacccttgg tgtcgccgct    300
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ggaaaagctt tggaggggtgc tgatgttggt ataattcctg ccggtgtgcc cagaaagcct    420
ggaatgactc gtgatgatct tttcaatatt aacgctggca ttgtcaagtc acttgccact    480
gctattttcta agtactgccc ccatgccctt gttaacatga taagcaaccc tgtgaactcc    540
accgttccca ttgctgcaga ggttttcaag aaggcagggg catatgacga gaagagattg    600
tttgggggta caacccttga tgtagtcagg gcgaaaactt tttatgccgg gaaagctaaa    660
gttcagattg ccgaggtcaa tgtacctgtt tttggaggcc atgcaggagt tactattntt    720
ccattatttt ntaaggaaca cctnaagcca atntggntga tgaaaccctt naggntttta    780
cggnangggc ncaagatggg ggaacngaat tgnaccgcc aagggtt                    827
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<210> 261

<211> 556

<212> DNA

<213> *Trifolium repens*

<220>

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<222> (10)..(10)

<223> n is a, c, g, or t

<220>

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<222> (17)..(17)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (24)..(24)

<223> n is a, c, g, or t

<400> 261

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ccaacaacga gagaataatg aggccgtcga tgctcagatc cgtccaatca gccgtatccc    120
gcgcctcctc tcacctaacc cgccgtggct atgctaccga accagttcca gaacgcaggg    180
tggccattct cgggtgctgt ggcgggatcg gacagcctct ctctcttctc atgaagctca    240
accctctcgt ttcaacccta tctctttatg atattgctgg aacccttggg gtcgccgctg    300
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atgtcagcca catcaactcc agatctgagg taactgggta tgcaggtgaa gaagagcttg	360
gaaaagcttt ggagggtgct gatgttggtta taattcctgc tgggtgtgccc agaaagcctg	420
gaatgactcg tgatgatctt ttcaatatta acgctggcat tgtcaagtca cttgccactg	480
ctattttctaa gtactgcccc catgcccttg ttaacatgat aagcaaccct gtgaactcca	540
ccgttcccat tgctgc	556

<210> 262
 <211> 682
 <212> DNA
 <213> Trifolium repens

<220>
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 <223> n is a, c, g, or t

<220>
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 <222> (20)..(20)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (56)..(56)
 <223> n is a, c, g, or t

<400> 262	
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tcaacggaga gaattatgag gccgtcgatg ttcagatccg tccaatcagc cgtctcccgc	120
gcctcttctc acctaaccgc cgtgggctat gctaccgaac cagttccaga acgcaagggtg	180
gccattctcg gcgctgccgg cgggatcggc cagcctctct ctcttctcat gaagctcaac	240
cctctcgttt caaccctatc tctttatgat attgctggaa cccctgggtgt cgccgctgat	300
gtcagccaca tcaactccag atctgaggta actgggtatg caggtgaaga agagcttgga	360
aaagctttgg aggggtgctga tggtgttata attcctgccg gtgtgcccag aaagcctgga	420
atgactcgtg atgatctttt caatattaac gctggcattg ttaagtcact tgccactgct	480
atttctaagt actgccccca tgcccttggt aacatgataa gcaaccctgt gaactccacc	540
gttcccattg ctgcagaggt tttcaagaag gcagggacat atgacgagaa gagattgttt	600
gggggttaca cccttgatgt agtcagggcg aaaactttct atgccgggaa agctaaagtt	660
ccagttgccg aggtcaatgt ac	682

<210> 263
 <211> 801
 <212> DNA
 <213> Trifolium repens

<220>
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<220>
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 <222> (553)..(553)
 <223> n is a, c, g, or t

<220>
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 <223> n is a, c, g, or t

<220>
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 <223> n is a, c, g, or t

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 <222> (590)..(590)
 <223> n is a, c, g, or t

<220>
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 <222> (669)..(669)
 <223> n is a, c, g, or t

<220>
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 <223> n is a, c, g, or t

<220>
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 <222> (678)..(679)
 <223> n is a, c, g, or t

<220>
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 <222> (686)..(686)
 <223> n is a, c, g, or t

<220>
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 <222> (699)..(699)
 <223> n is a, c, g, or t

<220>
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 <222> (704)..(704)
 <223> n is a, c, g, or t

<220>
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 <222> (710)..(710)
 <223> n is a, c, g, or t

<220>
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 <222> (730)..(731)
 <223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (735)..(735)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (737)..(737)
<223> n is a, c, g, or t

<220>
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<223> n is a, c, g, or t

<220>
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<222> (744)..(744)
<223> n is a, c, g, or t

<220>
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<222> (747)..(747)
<223> n is a, c, g, or t

<220>
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<222> (751)..(751)
<223> n is a, c, g, or t

<220>
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<222> (772)..(773)
<223> n is a, c, g, or t

<220>
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<222> (777)..(777)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (783)..(783)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (795)..(795)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (798)..(798)
<223> n is a, c, g, or t

<400> 263
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caacggagag aattatgagg cgcgcgatgt tcagatccgt ccaatcagcc gtctcccgcg 120
cctcttctca cctaaccgc cgtggctatg ctaccgaacc agttccagaa cgcaaggngg 180
ccattctcgg cgctgccggc gggatcggcc agcctctctc tcttctcatg aagctcaacc 240

ctctcgtttc aaccctatct ctttatgata ttgctggaac ccctggtgtc gccgctgatg	300
tcagccacat caactccaga tctgaggtaa ctgggtatgc aggtgaagaa gagcttggaa	360
aagctttgga ggggtgctgat gttgttataa ttcctgccgg tgtgcccaga aagcctggaa	420
tgactcgtga tgatcttttc aatattaacg ctggcattgt caagtcactt gccactggta	480
tttctaagta ctgcccccat gcccttggtt acatgataag caaccctgtg aactccaccg	540
ttcccatgtc tgnagagggt ttcaagaagg cngggacata tgacnagaan aaattgtttg	600
gggttcaacc cttgatgtag tcagggggaa aacttttttt gccgggaaag ctaaagtcc	660
agttgccng ggnaatgnnc ctgttnttg aggctgcng agtnctattn tccctttttt	720
ttttaggcan ncctnancca nttnngngat naaaccttaa gggtttacgg gnnggcnaaa	780
aanggggaac aaaanttna c	801

<210> 264
 <211> 577
 <212> DNA
 <213> Trifolium repens

<220>
 <221> misc_feature
 <222> (2)..(3)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (19)..(19)
 <223> n is a, c, g, or t

<400> 264	
gnntctcgaa agctttttng cctaacggag agaattatga ggccgtcgat gttcagatcc	60
gtccaatcag ccgtctcccg cgcctcttct cacctaacc gccgtggcta tgctaccgaa	120
ccagttccag aacgcaaggt ggccattctc ggcgtgccg gcgggatcgg ccagcctctc	180
tctcttctca tgaagctcaa ccctctcgtt tcaaccctat ctctttatga tattgctgga	240
acccctgggtg tcgccgctga tgtcagccac atcaactcca gatctgaggt aactgggtat	300
gcaggtgaag aagagcttgg aaaagctttg gaggggtgctg atgttggttat aattcctgcc	360
ggtgtgcca gaaagcctgg aatgactcgt gatgatcttt tcaatattaa cgctggcatt	420
gtcaagtcac ttgccactgc tttttctaag tactgcccc atgcccttgt taacatgata	480
agcaaccctg tgaactccac cgttccatt gctgcagagg ttttcaagaa ggcagggaca	540
tatgacgaga agagattggt tggggttaca acccttg	577

<210> 265
 <211> 594
 <212> DNA
 <213> Trifolium repens

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<400> 265
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ccatcagccg tatccccgcgc ctctctcac ctaaccgcc gtgggtatgc taccgaacca      120
gttcagaac gcaaggtggc cattctcggc gctgctggcg ggatcgcca gcctctctct      180
cttctcatga agctcaatcc tctcgtttca accctatctc tttatgatat tgctggaacc      240
cctggtgtcg ccgctgatgt cagccacatc aactccagat ctgaggtaac tgggtatgca      300
ggggaagaag agcttggaag agctttggag ggtgctgatg ttgttataat tcctgctggt      360
gtgcccagaa agcctggaat gactcgtgat gatcttttca atattaacgc tggcattgtc      420
aagtcacttg cactgctat ttctaagtac tgcccccatg cccttgtaa catgataagc      480
aaccctgtga actccaccgt tcccattgct gcagaggttt tcaagaaggc agggacatat      540
gacgagaaga gattgtttgg gggtacaacc cttgatgtag tcagggcaaa aact          594

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<210> 266
<211> 811
<212> DNA
<213> Trifolium repens

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<220>
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<222> (28)..(28)
<223> n is a, c, g, or t

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<222> (30)..(30)
<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<222> (517)..(517)
<223> n is a, c, g, or t

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<220>
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<222> (547)..(547)
<223> n is a, c, g, or t

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<222> (584)..(584)
<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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 <222> (678)..(678)
 <223> n is a, c, g, or t

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 <222> (689)..(689)
 <223> n is a, c, g, or t

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 <222> (691)..(691)
 <223> n is a, c, g, or t

<220>
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 <222> (703)..(703)
 <223> n is a, c, g, or t

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 <222> (712)..(712)
 <223> n is a, c, g, or t

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 <222> (720)..(720)
 <223> n is a, c, g, or t

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 <222> (724)..(724)
 <223> n is a, c, g, or t

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 <222> (734)..(734)
 <223> n is a, c, g, or t

<220>
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 <222> (743)..(743)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (745)..(745)
 <223> n is a, c, g, or t

<220>
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 <222> (754)..(754)
 <223> n is a, c, g, or t

<220>
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 <222> (756)..(756)
 <223> n is a, c, g, or t

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 <222> (766)..(766)
 <223> n is a, c, g, or t

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 <222> (769)..(769)
 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

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 <222> (782)..(782)
 <223> n is a, c, g, or t

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 <222> (795)..(795)
 <223> n is a, c, g, or t

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 <222> (797)..(798)
 <223> n is a, c, g, or t

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 <222> (804)..(805)
 <223> n is a, c, g, or t

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 <222> (811)..(811)
 <223> n is a, c, g, or t

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 gtccaatcag ccgtatcccg ggcctcctct cacctaacc gccgtgggta tgctaccgaa 120
 ccagttccag aacgcaaggn ggccattctc ggtgctgccg gcgggatcgg acagcctctc 180
 tctcttctca tgaagctcaa ccctctcggt tcaaccctat ctctttatga tattgctgga 240
 acccctgggtg tcgccgctga tgtcagccac atcaactcca gatctgaggt aactgggtat 300
 gcaggtgaaag aagagcttgg aaaagctttg gaggggtgctg atgttggttat aattcctgct 360
 ggtgtgcccc gaaagcctgg aatgactcgt gatgatcttt tcaatattaa cgctggcatt 420
 gtcaagtcac ttgccactgc tatttctaag tactgcccc atgcccttgt taacatgata 480
 agcaaccctg tgaactccac cgttccatt gctgcanagg ttttcaagaa ggcagggaca 540
 tatgacnaga agagattggt tgggggttaca acccttgatg tagncagggc aaaaactttt 600
 tatgctggga aagctaaagt tccagttgcc gaggncaatg gacctgttat aggaggccat 660
 gcaggagtta ctattctncc attattttnt naggcaacac ctnaagccaa tntgggtgan 720
 gatnccctta aggnntttaac ggnanggacc caananggag gaacanaant tnngaccccc 780
 anggtggaag ggttntnnac ttttnaatgg n 811

<210> 267
 <211> 722
 <212> DNA
 <213> *Trifolium repens*

<220>
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<220>
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 <223> n is a, c, g, or t

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 <222> (36)..(36)
 <223> n is a, c, g, or t

<220>
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 <222> (38)..(38)
 <223> n is a, c, g, or t

<220>
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 <222> (673)..(673)
 <223> n is a, c, g, or t

<220>
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 <222> (705)..(705)
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 <222> (719)..(719)
 <223> n is a, c, g, or t

<400> 267
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 gaagaagagc ttggaaaagc tttggagggt gctgatgttg ttataattcc tgctgggtgtg 120
 cccagaaagc ctggaatgac tcgtgatgat cttttcaata ttaacgctgg cattgtcaag 180
 tcacttgcca ctgctatttc taagtactgc ccccatgccc ttgttaacat gataagcaac 240
 cctgtgaact ccaccgttcc cattgctgca gaggttttca agaaggcagg gacatatgac 300
 gagaagagat tgtttgggggt tacaaccctt gatgtagtca gggcaaaaac tttctatgct 360
 gggaaagcta aagttccagt tgccgagggtc aatgtacctg ttataggagg ccatgcagga 420
 gttactattc tcccattatt ttctcaggca acacctcaag ccaatctgga tgatgatacc 480
 attaaggctc taacggcaag gacacaagat ggaggaacag aagttgtgac cgccaaggct 540
 ggaaaggggt ctgcaacttt gtcaatggct tatgctggag ccatatttgc tgatgcttgc 600

ctcaaaggtc tgaatggagt tccagatgtt attgagtgct catatgtgca atccaatatc	660
atctctgacc ttnccttctt tgcttccaag gtgaggattg ggaanaatgg tgtgggaana	720
at	722

<210> 268
 <211> 557
 <212> DNA
 <213> Trifolium repens

<220>
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 <223> n is a, c, g, or t

<220>
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 <222> (9)..(9)
 <223> n is a, c, g, or t

<400> 268	
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gaaaagcttt ggaggggtgct gatgttggtta taattcctgc tgggtgtgccc agaaagcctg	120
gaatgactcg tgatgatctt ttcaatatta acgctggcat tgtcaagtca cttgccactg	180
ctattttctaa gtactgcccc catgcccttg ttaacatgat aagcaaccct gtgaactcca	240
ccgttcccat tgctgcagag gttttcaaga aggcaggac atatgacgag aagagattgt	300
ttgggggttac aacccttgat gtagtcaggg caaaaacttt ctatgctggg aaagctaaag	360
ttcagttgc cgagggtcaat gtacctgtta taggaggcca tgcaggagtt actattctcc	420
cattattttc tcaggcaaca cctcaagcca atctggatga tgataccatt aaggctctaa	480
cggcaaggac acaagatgga ggaacagaag ttgtgaccgc caaggctgga aagggttctg	540
caactttgtc aatggct	557

<210> 269
 <211> 138
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 <213> Trifolium repens

<220>
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 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<222> (19)..(19)

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<222> (22)..(22)

<223> n is a, c, g, or t

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<222> (36)..(36)

<223> n is a, c, g, or t

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<222> (39)..(39)

<223> n is a, c, g, or t

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<222> (77)..(77)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (104)..(106)

<223> n is a, c, g, or t

<400> 269

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caatccaata tcatctntga ccttcctttc tttgcttcca aggnnnggat tgggaagaat 120

ggtgtggaag agattctg 138

<210> 270

<211> 465

<212> DNA

<213> Trifolium repens

<220>

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<222> (2)..(2)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (4)..(4)

<223> n is a, c, g, or t

<220>

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<222> (19)..(19)

<223> n is a, c, g, or t

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<222> (43)..(43)

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<222> (417)..(417)

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<222> (443)..(443)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (447)..(447)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (450)..(450)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (460)..(460)

<223> n is a, c, g, or t

<400> 270

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tttgcttcca ggtgaggatt gggaagaatg gtgtggaaga aattctgggc ttaggttctc 120

tcacagattt cgagcaacaa ggccttgaaa acctcaaggc tgaactcaaa tcattctattg 180

aaaaggggaat caaatTTGCC tcccagtaat cgaacatgtc atacattact ggattttttcc 240

atttagaacc agatcaaatt ttgcaaattc agaacaattg tttgtaatgt tgccggtagg 300

tataccccta gatttaataa gtaaattctgc gagagcagtt tattgctgca gggactgaaa 360

ttaaaaccag ttttaggttg gcctttccat tcgtaatggc ccttcattgt tgcattgnttt 420

catataatgc aattgaaggg tgntggncan cgatacacan ccccc 465

<210> 271

<211> 598

<212> DNA

<213> *Trifolium repens*

<220>

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<222> (17)..(17)

<223> n is a, c, g, or t

<400> 271

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cccattacca ttcatcccca gaggtcgaga tggcagcatc agcagcagct acttttacta      120
ttggaactgc ccaaacaggg aggccacttc ctcaatcaaa cccttttggt ttgaaagtca      180
attcccaggt taattttaag acctttctctg gtctcaaggc catgtcatct ctaagatgcg      240
agtctgaatc atctttcttt ggcaacgaaa ctagtgctgc tctgcgtgca acttttgcac      300
ccaaagctca aaaggaaaac caaaacatca accgcaattt gcacccctcag gcacccctaca      360
aagtggcggg tcttggtgct gcaggaggaa ttggtcagcc actggcactt ctcattaaga      420
tgtcgccttt ggtttccgac ctgcatcttt atgatatcgc gaatgttaag ggagttgctg      480
ctgatatcag tcattgcaac actccttcaa aggttttgga tttcacaggt gcttctgagt      540
tggcaaattg tttgaaaggt gtggatgtag ttgttatacc tgctggtggt cccagaaa      598
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<210> 272

<211> 169

<212> PRT

<213> *Trifolium repens*

<400> 272

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Gly Arg Pro Leu Pro Gln Ser Asn Pro Phe Gly Leu Lys Val Asn Ser
20 25 30

Gln Val Asn Phe Lys Thr Phe Ser Gly Leu Lys Ala Met Ser Ser Leu
35 40 45

Arg Cys Glu Ser Glu Ser Ser Phe Phe Gly Asn Glu Thr Ser Ala Ala
50 55 60

Leu Arg Ala Thr Phe Ala Pro Lys Ala Gln Lys Glu Asn Gln Asn Ile
65 70 75 80

Asn Arg Asn Leu His Pro Gln Ala Ser Tyr Lys Val Ala Val Leu Gly
85 90 95

Ala Ala Gly Gly Ile Gly Gln Pro Leu Ala Leu Leu Ile Lys Met Ser
100 105 110

Pro Leu Val Ser Asp Leu His Leu Tyr Asp Ile Ala Asn Val Lys Gly
115 120 125

Val Ala Ala Asp Ile Ser His Cys Asn Thr Pro Ser Lys Val Leu Asp
Page 253

130

135

140

Phe Thr Gly Ala Ser Glu Leu Ala Asn Cys Leu Lys Gly Val Asp Val
 145 150 155 160

Val Val Ile Pro Ala Gly Val Pro Arg
 165

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 ttggaactgc ccaaacaggg aggccacttc ctcaatcaaa cctttttggt ttgaaagtca 180
 attcccaggt taattttaag accttctctg gtctcaaggc catgtcatct ctaagatgcg 240
 agtctgaatc atctttcttt ggcaacgaaa ctagtgctgc tctgcgtgca acttttgcac 300
 ccaaagctca aaaggaaaac caaaacatca accgcaattt gcacccctcag gcacccctaca 360
 aagtggcggg tcttggtgct gcaggaggaa ttggtcagcc actggcactt ctcatataaga 420
 tgtcgccttt ggtttccgac ctgcatcttt atgatatcgc gaatgttaag ggagttgctg 480
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 tggcaaattg tttg 554

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ggaactgccc aaacagggag gccacttcct caatcaaacc cttttggttt gaaagtcaat      180
tcccaggtta attttaagac cttctctggt ctcaaggcca tgtcatctct aagatgcgag      240
tctgaatcat ctttctttgg caacgaaact agtgctgctc tgcgtgcaac ttttgcaccc      300
aaagctcaaa aggaaaacca aaacatcaac cgcaatttgc atcctcaggc atcctacaaa      360
gtggcggttc ttggtgctgc aggaggaatt ggtcagccac tggcacttct cattaagatg      420
tcgcctttgg tttccgacct gcattcttat gatatcgca atgttaaggg agttgctgct      480
gatatcagtc attgcaacac tccttcaaag gttttggatt tcacaggtgc ttctgagttg      540
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gccc aaacag ggaggtcact tcctcaatca aacccttttg gtttgaaagt caattcccag      180
gttaatttta agaccttctc tgggtctcaag gccatgtcgt ctctaagatg cgagtctgaa      240
tcattcttct ttggcaacga aacttgtgct gctctgctg caacttttgc acccaaagct      300
caaaaggaaa accgaaacat caaccgcaat ttgcagcctc aggcattccta caaagtggcg      360
gttctcggtg ctgcaggagg aattggtcag ccacttgcac ttctcattaa gatgtcgctt      420
ttggtttccg acctgcatct ttatgacatt gcgaatgtta agggagttgc tgctgatatc      480
agccattgca acactccttc aaaggttttg gatttcacag gtgcttctga gctagcaaatt      540
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attgcaagaa tctctgctca tcttcaacct ccaaatttcc aggaaggagg tgatgttgca 180
attagcaaag ctaactgcag agcaaaaggt ggggcgccgg gattcaaagt agcaatcttg 240
ggggctgctg gtggaattgg tcaatccctt tctttgctgt tgaagatcaa tccattggtt 300

tcagttcttc atctttatga tgttgtcaac actcctggtg tcactgctga tgtagtcac	360
attgacaccg gtgctgtggt tcgtggcctt ctagggcagg cacaacttga gaatgcactt	420
acaggcatgg acttggtcgt tatacctgct ggtgtgccga ggaaacctgg aatgacaagg	480
gatgacttat ttaagataaa tgctggaatt gtgaggactc ttagcgaagg aattgccaag	540
agctgtccta atgcaattgt caacttgatt agcaatccag tgaattccac tgtgccaatt	600
gctgctgagg ttttcaagaa agccggtaca tatgatccaa agcgactttt aggggttaca	660
accctcgatg ttgtgagggc aaataccttt gtggcagaag tacttggtgt tgatccaaga	720
gaggttgatg ttccagtggg aggagggcac gcaggagtca caatattacc tcttttgtca	780
cagggttaagc ctcccagtag cttcaccgca gaagaaaccg aatacctgac aaancgcatt	840
caaaaanggcg gaacacaagt tgttgaggca aaggctgggg ctggttcggc aacactantn	900
atggcctatg cagctgccaa gtttgctaac gcatgcctcc gtggcttgaa aggagaagcc	960
gggatatggtg agtgtgcttt tgttgattct caggttacgg aacttccttt ctttgcagcc	1020
aaggttcgtc ttggtcgcgg tggagcagaa gagatatac aacttggtcc cttaatgag	1080
tatgagagga ttggattaga aaaagcgaag aaagagttag caggaagcat ccagaagggg	1140
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<400> 277

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Ala	His	Leu	Gln	Pro	Pro	Asn	Phe	Gln	Glu	Gly	Gly	Asp	Val	Ala	Ile
			20					25					30		

Ser Lys Ala Asn Cys Arg Ala Lys Gly Gly Ala Pro Gly Phe Lys Val
 35 40 45
 Ala Ile Leu Gly Ala Ala Gly Gly Ile Gly Gln Ser Leu Ser Leu Leu
 50 55 60
 Leu Lys Ile Asn Pro Leu Val Ser Val Leu His Leu Tyr Asp Val Val
 65 70 75 80
 Asn Thr Pro Gly Val Thr Ala Asp Val Ser His Ile Asp Thr Gly Ala
 85 90 95
 Val Val Arg Gly Phe Leu Gly Gln Ala Gln Leu Glu Asn Ala Leu Thr
 100 105 110
 Gly Met Asp Leu Val Val Ile Pro Ala Gly Val Pro Arg Lys Pro Gly
 115 120 125
 Met Thr Arg Asp Asp Leu Phe Lys Ile Asn Ala Gly Ile Val Arg Thr
 130 135 140
 Leu Ser Glu Gly Ile Ala Lys Ser Cys Pro Asn Ala Ile Val Asn Leu
 145 150 155 160
 Ile Ser Asn Pro Val Asn Ser Thr Val Pro Ile Ala Ala Glu Val Phe
 165 170 175
 Lys Lys Ala Gly Thr Tyr Asp Pro Lys Arg Leu Leu Gly Val Thr Thr
 180 185 190
 Leu Asp Val Val Arg Ala Asn Thr Phe Val Ala Glu Val Leu Gly Val
 195 200 205
 Asp Pro Arg Glu Val Asp Val Pro Val Val Gly Gly His Ala Gly Val
 210 215 220
 Thr Ile Leu Pro Leu Leu Ser Gln Val Lys Pro Pro Ser Ser Phe Thr
 225 230 235 240
 Ala Glu Glu Thr Glu Tyr Leu Thr Xaa Arg Ile Gln Xaa Gly Gly Thr
 245 250 255
 Gln Val Val Glu Ala Lys Ala Gly Ala Gly Ser Ala Thr Leu Met Ala
 260 265 270
 Tyr Ala Ala Ala Lys Phe Ala Asn Ala Cys Leu Arg Gly Leu Lys Gly
 275 280 285

Glu Ala Gly Ile Val Glu Cys Ala Phe Val Asp Ser Gln Val Thr Glu
 290 295 300

Leu Pro Phe Phe Ala Ala Lys Val Arg Leu Gly Arg Gly Gly Ala Glu
 305 310 315 320

Glu Ile Tyr Gln Leu Gly Pro Leu Asn Glu Tyr Glu Arg Ile Gly Leu
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ttgcaagaat ctctgctcat cttcagcctc caaatttcca ggaaggaggt gatgttgcaa	180
ttagcaaagc taactgcaga gcaaaaggtg gggcgccggg attcaaagta gcaatcttgg	240
gggctgctgg tggaattggt caatcccttt ctttgctggt gaagatcaat ccattggttt	300
cagttcttca tctttatgat gttgtcaaca ctcctggtgt cactgctgat gttagtcaca	360
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cagggcatgga cttggctcgtt atacctgctg gtgtgccgag gaaacctgga atgacaaggg	480
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gctgtcctaa tgcaattgtc aacttgatta gcaatccagt gaattccact gtgccaattg	600
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cacattgaca ccggtgctgt ggttcgtggc tttctagggc aggcacaact tgagaatgca	360
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 <212> DNA
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cagagcaaaa ggtggggcgc cgggattcaa agtagcaatc ttgggggctg ctggtggaat	180
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 caaaagggtg ggcgccggga ttcaaagtag caatcttggg ggctgctggt ggaattggtc 180
 aatccctttc tttgctgttg aagatcaatc cattggtttc ggttcttcat ctttatgatg 240
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 gtggctttct agggcaggca caacttgaga atgcacttac aggcattggac ttggtcgtta 360
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cgggattcaa agtagcaatc ttgggggctg ctggtggaat tggatcaatcc ctttctttgc	180
tggtgaagat caatccattg gtttcagttc ttcattctta tgatgttgtc aacactcctg	240
gtgtcactgc tgatgttagt cacattgaca ccggtgctgt gggttcgtggc tttctagggc	300
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cgaggaaacc tggaatgaca agggatgact tatttaagat aaatgctgga attgtgagga	420
ctcttagcga aggaattgcc aagagctgtc ctaatgcaat tgtcaacttg attagcaatc	480
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gaggaaacct ggaatgacaa gggatgactt atttaagata aatgctggaa ttgtgaggac 120

tcttagcgaa ggaattgcc aagagctgtcc taatgcaatt gtcaacttga ttagcaatcc 180

agtgaattcc actgtgccaa ttgctgctga ggttttcaag aaagccggta catatgattc 240

aaagcgactt ttaggggtaa caaccctcga tggtgtgagg gcaaatacct ttgtggcaga 300

agtacttggt gttgatccaa gagagggtga tggtccagng gtaggatggc acgcangagt 360

acaatattac ctcttttgtc acagggttaag cctnccagta ncttaccgna gaanaaacgg 420

aatacctgac anancgnatt caaaanggcg gaacacaagt cgttgaggca aag 473

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aggagtcaca atattacctc ttttgtcaca ggttaagcct cccagtagct tctactgcaga 180

agaaaccgaa tacctgacaa atcgcatcca aaatgggtgga acagaagttg ttgaggcaaa 240

ggctggggct ggctcggcaa cactantaat ggcataatgca gctgccaaagt ttgctaacgc 300

atgcctccgt ggcttgaaag gagaagccgg gatagtggag tgtgcttttg ttgattctca 360

ggttacggaa cttcctttct ttgcagccaa ggttcgtctt ggtcgcggtg gagcagaaga	420
gatataccaa cttgggtcccc ttaatgagta tgagaggatt gggttggaaa aagcgaagaa	480
tgagttagcg ggaagcatcc agaagggagt agaattcatc agaaaataag tcagataagg	540
aaaaattagt tttgtattgn ctctttctat atctataaag aacttgtgta ataattcc	598

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<220>
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 <223> n is a, c, g, or t

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aagtttgcta acgcatgcct ccgtggcttg aaaggagaag ccgggatagt ggagtgtgct	120
tttggtgatt ctgaggttac ggaacttcct ttctttgcag ccaagggttcg tcttggtcgc	180
gggtggagcag aagagatata tcaacttggt ccccttaatg agtatgagag gattggatta	240
gaaaaagcga agaaagagtt agcaggaagc atccagaagg gagtagaatt catcacanaa	300
aaanaa	306

<210> 287
 <211> 299
 <212> DNA
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<220>
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<400> 287
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 tgctaacgca tgcctccgtg gcttgaaagg agaagccggg atagtggagt gtgcttttgt 120
 tgattctcag gttacggaac ttcctttctt tgcagccaag gttcgtcttg gtcgcggtgg 180
 agcagaagag atatatcaac ttggtcccct taatgagtat gagaggattg gattagaaaa 240
 agcgaagaaa gagttagcag gaagcatcca gaaggagta gaattcatca aaaaaaan 299

<210> 288
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 <223> n is a, c, g, or t

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ctccaattt caagatgaat gaacatggtg attcttcttt gacaagtttc cattgccgtg      180
caaaagggtg agcacctgga ttcaaagttg caattttagg tgctgctggt ggcataggtc      240
aacctctttc aatgttgatg aagatgaatc ctttggttn agttcttcat ctttatgatg      300
ttgtaatac tcctggtggt acttctgata ttagtcatat ggatactgct gctgttgttc      360
gaggggtttt ggggcaaaat cagcttgagg atgcacttac aggtatggat ttggtaatca      420
ttcctgccgg tgttccccgt aaacctggaa tgacaagaga tgatctcttc aatataaatg      480
ccgggatcgt taaaacactc tgtgaagcaa ttgcaaagcg atgtcctaag gcgattgtca      540
acgtgattag taatccggtt aactccactg tccccattgc ggctgaagtt ttcaaaagag      600
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gaggacatgc cggaatcacc attttacctc tgctttctca ggttaaacca cattcctctt      780
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<210> 289
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<213> Trifolium repens

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His Leu Asn Pro Pro Asn Phe Lys Met Asn Glu His Gly Asp Ser Ser
          20          25          30

Leu Thr Ser Phe His Cys Arg Ala Lys Gly Gly Ala Pro Gly Phe Lys
          35          40          45

Val Ala Ile Leu Gly Ala Ala Gly Gly Ile Gly Gln Pro Leu Ser Met
          50          55          60

Leu Met Lys Met Asn Pro Leu Val Xaa Val Leu His Leu Tyr Asp Val
65          70          75          80

Val Asn Thr Pro Gly Val Thr Ser Asp Ile Ser His Met Asp Thr Ala
          85          90          95

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Ala Val Val Arg Gly Phe Leu Gly Gln Asn Gln Leu Glu Asp Ala Leu
 100 105 110
 Thr Gly Met Asp Leu Val Ile Ile Pro Ala Gly Val Pro Arg Lys Pro
 115 120 125
 Gly Met Thr Arg Asp Asp Leu Phe Asn Ile Asn Ala Gly Ile Val Lys
 130 135 140
 Thr Leu Cys Glu Ala Ile Ala Lys Arg Cys Pro Lys Ala Ile Val Asn
 145 150 155 160
 Val Ile Ser Asn Pro Val Asn Ser Thr Val Pro Ile Ala Ala Glu Val
 165 170 175
 Phe Lys Arg Ala Gly Thr Tyr Asp Pro Lys Arg Leu Leu Gly Val Thr
 180 185 190
 Met Leu Asp Val Val Arg Ala Asn Thr Phe Val Ala Glu Val Leu Gly
 195 200 205
 Leu Asp Pro Arg Asp Val Asp Val Pro Val Val Gly Gly His Ala Gly
 210 215 220
 Ile Thr Ile Leu Pro Leu Leu Ser Gln Val Lys Pro His Ser Ser Phe
 225 230 235 240
 Thr Thr Lys Glu Ile Glu Tyr Leu Thr Asp Arg Ile Gln Asn Gly Gly
 245 250 255
 Thr Glu Val Val Glu Ala Lys Ala Gly Ala Gly Ser
 260 265

<210> 290
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 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

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<220>
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<223> n is a, c, g, or t

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ctcccaattt caagatgaat gaacatggtg attcttcttt gacaagtttc cattgccgtg    180
caaaaggtgg agcacctgga ttcaaagttg caatttttagg tgctgctggt ggcataaggc    240
aacctctttc aatgttgatg aagatgaatc ccttggttta gttcttcacatc tttatgatgt    300
tgttaatact cctggtgtta cttctgatat tagtcacatg gatactggtg ctgttgttcg    360
aggatttttg gggcaaaatc agcttgagga tgcacttaca ggtatggatt tggtaatcat    420
tcctgctggt gttccccgta aacctggaat gacaagagat gatctcttca atataaatgc    480
cgggatcggt aaaacactct gtgaagcaat tgcgaagcga tgtcctaagg cgattgtcaa    540
cgtgattagt aatccggtta actccactgt cc                                572

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<210> 291
<211> 576
<212> DNA
<213> Trifolium repens

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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<223> n is a, c, g, or t

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gctgttggtc gaggggtttt ggggcaaaat cagcttgagg atgcacttac aggtatggat    180
ttggtaatca ttctgcccgg tgttccccgt aaacctggaa tgacaagaga tgatctcttc    240
aatataaatg ccgggatcgt taaaacactc tgtgaagcaa ttgcaaagcg atgtcctaag    300
gcgattgtca acgtgattag taatccggtt aactccactg tccccattgc ggctgaagtt    360
ttcaaaaagag ccggtactta tgatcccaag agacttttgg gagtgacaat gcttgatgtg    420

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gttcggggcca atacgtttgt ggctgaagtt cttggtcttg atccaaggga tgtggatgtc	480
ccagttgtcg gaggacatgc cggaatcacc attttacctc tgctttctca ggttaaacca	540
cattcctctt tcacgacaaa ggaaattgag tacttg	576

<210> 292
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 <212> DNA
 <213> *Trifolium repens*

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 <223> n is a, c, g, or t

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acttacaggt atggatttgg taatcattcc tgccggtgtt ccccgtaaac ctggaatgac	180
aagagatgat ctcttcaata taaatgccgg gatcgtaaaa acactctgtg aagcaattgc	240
aaagcgatgt cctaaggcgg ttgtcaacgt gattagtaat ccggttaact ccactgtccc	300
cattgcggt gaagttttca aaagagccgg tacttatgat cccaagagac ttttgggagt	360
gacaatgctt gatgtggttc gggccaatac gtttgtggct gaagttcttg gtcttgatcc	420
aagggatgtg gatgtcccag ttgtcggagg acatgccgga atcaccattt tacctctgct	480
ttctcagggt aaaccacatt cctctttcac gacaaaggaa attgagtact tgacagatcg	540
catacaaaac ggtggaactg aagttgttga ggccaaagct ggagctggct ct	592

<210> 293
 <211> 599
 <212> DNA
 <213> *Trifolium repens*

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<220>
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 <223> n is a, c, g, or t

<220>
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 <222> (271)..(271)

<223> n is a, c, g, or t

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tagatacatg tgtggtcttc tcaaagttga taaggaacca gtcactgtat tggTcactgg 180
tgctgcagga caaattggnt atgctcttgn tccaatgatt gcaagaggga tgatgctagg 240
cccaaataca cctggaattc tTcatatgct ngatattgaa ccaggattag aggcccttaa 300
aggggtgaag atggaactga ttgatggTgc tttccactt cttagaggTg ttgttgctac 360
tacggatgtt gttgaagcat gcaaggatgt taacattgct gttatgcttg gtggatcccc 420
aaggaaggaa ggaatggaaa gaaaagatgt aatgtctaag aatgtttcaa tttacaaggc 480
tcaagcttca gctttggagg agcatgctgc tgcagattgt aaagtgctag tggtagccaa 540
tccagcaaac acaaatgctc taatattgaa agaatttgct ccatcaatcc ctgagaaaa 599

<210> 294
<211> 157
<212> PRT
<213> Trifolium repens

<220>
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<222> (24)..(24)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> misc_feature
<222> (28)..(28)
<223> Xaa can be any naturally occurring amino acid

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<223> Xaa can be any naturally occurring amino acid

<400> 294

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Thr Gly Ala Ala Gly Gln Ile Xaa Tyr Ala Leu Xaa Pro Met Ile Ala
20 25 30

Arg Gly Met Met Leu Gly Pro Asn Gln Pro Gly Ile Leu His Met Xaa
35 40 45

Asp Ile Glu Pro Gly Leu Glu Ala Leu Lys Gly Val Lys Met Glu Leu
50 55 60

Ile Asp Gly Ala Phe Pro Leu Leu Arg Gly Val Val Ala Thr Thr Asp
Page 272

65		70		75		80									
Val	Val	Glu	Ala	Cys	Lys	Asp	Val	Asn	Ile	Ala	Val	Met	Leu	Gly	Gly
				85					90					95	
Ser	Pro	Arg	Lys	Glu	Gly	Met	Glu	Arg	Lys	Asp	Val	Met	Ser	Lys	Asn
			100					105					110		
Val	Ser	Ile	Tyr	Lys	Ala	Gln	Ala	Ser	Ala	Leu	Glu	Glu	His	Ala	Ala
		115					120					125			
Ala	Asp	Cys	Lys	Val	Leu	Val	Val	Ala	Asn	Pro	Ala	Asn	Thr	Asn	Ala
	130					135					140				
Leu	Ile	Leu	Lys	Glu	Phe	Ala	Pro	Ser	Ile	Pro	Glu	Lys			
145					150					155					

<210> 295
 <211> 276
 <212> DNA
 <213> Trifolium repens

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 gatacatgtg tggctcttctc aaagttgata aggaaccagt cactgtattg gtcactggtg 180
 ctgcaggaca aattggntat gctcttgntn caatgattgc nanagggatg atgctangnc 240
 caaatcnacc tggcnattggt gatatgctng ntnttg 276

<210> 296
 <211> 594
 <212> DNA
 <213> Trifolium repens

<220>
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 tccttaaaaa atctgttctt gttttatatt gtactttttt gttttggaag atcgtttagat 120
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 caggacaaat tggttatgct cttgttccaa tgattgcaag agggatgatg ctaggcccaa 240
 atcaacctgt aattcttcat atgcttgata ttgaaccagg attagaggcc cttaaagggg 300
 tgaagatgga actgattgat ggtgctttcc cacttcttag aggtgttggt gctactacgg 360
 atgttggtga agcatgcaag gatgttaaca ttgctgttat gcttggtgga tccccaagga 420
 aggaaggaat ggaaagaaaa gatgtaatgt ctaagaatgt ttcaatttac aaggctcaag 480

cttcagcttt ggaggagcat gctgctgcag attgtaaagt gctagtggta gccaatccag	540
caaacacaaa tgctctaata ttgaaagaat ttgctccatc aatccctgag aaaa	594

<210> 297
 <211> 866
 <212> DNA
 <213> Trifolium repens

<220>
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 <223> n is a, c, g, or t

<220>
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 <223> n is a, c, g, or t

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 <222> (14)..(14)
 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

<220>
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ctcccaattt caagatgaat gaacatggtg attcttcttt gacaagtttc cattgccgtg	180
caaaagggtg agcacctgga ttcaaagttg caattttagg tgctgctggt ggcataggtc	240
aacctctttc aatgttgatg aagatgaatc ctttggttn agttcttcat ctttatgatg	300
ttgttaatac tcctggtggt acttctgata ttagtcatat ggatactgct gctgttgttc	360
gaggggtttt ggggcaaat cagcttgagg atgcacttac aggtatggat ttggtaatca	420
ttcctgccgg tgttccccgt aaacctggaa tgacaagaga tgatctcttc aatataaatg	480
ccgggatcgt taaaacactc tgtgaagcaa ttgcaaagcg atgtcctaag gcgattgtca	540
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<210> 298
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 <212> PRT
 <213> Trifolium repens

<220>
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<400> 298

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 20 25 30

Leu Thr Ser Phe His Cys Arg Ala Lys Gly Gly Ala Pro Gly Phe Lys
 35 40 45

Val Ala Ile Leu Gly Ala Ala Gly Gly Ile Gly Gln Pro Leu Ser Met
 50 55 60

Leu Met Lys Met Asn Pro Leu Val Xaa Val Leu His Leu Tyr Asp Val
 65 70 75 80

Val Asn Thr Pro Gly Val Thr Ser Asp Ile Ser His Met Asp Thr Ala
 85 90 95

Ala Val Val Arg Gly Phe Leu Gly Gln Asn Gln Leu Glu Asp Ala Leu
 100 105 110

Thr Gly Met Asp Leu Val Ile Ile Pro Ala Gly Val Pro Arg Lys Pro
 115 120 125

Gly Met Thr Arg Asp Asp Leu Phe Asn Ile Asn Ala Gly Ile Val Lys
 130 135 140

Thr Leu Cys Glu Ala Ile Ala Lys Arg Cys Pro Lys Ala Ile Val Asn
 145 150 155 160

Val Ile Ser Asn Pro Val Asn Ser Thr Val Pro Ile Ala Ala Glu Val
 165 170 175

Phe Lys Arg Ala Gly Thr Tyr Asp Pro Lys Arg Leu Leu Gly Val Thr
 180 185 190

Met Leu Asp Val Val Arg Ala Asn Thr Phe Val Ala Glu Val Leu Gly
195 200 205

Leu Asp Pro Arg Asp Val Asp Val Pro Val Val Gly Gly His Ala Gly
210 215 220

Ile Thr Ile Leu Pro Leu Leu Ser Gln Val Lys Pro His Ser Ser Phe
225 230 235 240

Thr Thr Lys Glu Ile Glu Tyr Leu Thr Asp Arg Ile Gln Asn Gly Gly
245 250 255

Thr Glu Val Val Glu Ala Lys Ala Gly Ala Gly Ser
260 265

<210> 299
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<212> DNA
<213> Trifolium repens

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ctcccaattt caagatgaat gaacatggtg attcttcttt gacaagtttc cattgccgtg 180
caaaagggtg agcacctgga ttcaaagttg caattttagg tgctgctggt ggcataggtc 240
aacctctttc aatgttgatg aagatgaatc ccttggttta gttcttcac tttatgatgt 300
tgtaataact cctgggtgta cttctgatat tagtcacatg gatactggtg ctgttgttcg 360
aggatttttg gggcaaaatc agcttgagga tgcacttaca ggtatggatt tggtaatcat 420
tcctgctggt gttccccgta aacctggaat gacaagagat gatctcttca atataaatgc 480

cgggatcggtt aaaacactct gtgaagcaat tgcgaagcga tgtcctaagg cgattgtcaa 540
 cgtgattagt aatccgggta actccactgt cc 572

<210> 300
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 <212> DNA
 <213> Trifolium repens

<220>
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 <223> n is a, c, g, or t

<220>
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 <222> (12)..(12)
 <223> n is a, c, g, or t

<220>
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 <222> (22)..(22)
 <223> n is a, c, g, or t

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 ctttatgatg ttgttaatac tcctgggtgtt acttctgata ttagtcatat ggatactgct 120
 gctgttggtc gaggggttttt ggggcaaaat cagcttgagg atgcacttac aggtatggat 180
 ttggtaaatca ttcctgccgg tgttccccgt aaacctggaa tgacaagaga tgatctcttc 240
 aatataaatg ccgggatcgt taaaacactc tgtgaagcaa ttgcaaagcg atgtcctaag 300
 gcgattgtca acgtgattag taatccgggt aactccactg tccccattgc ggctgaagtt 360
 ttcaaaagag ccggtactta tgatcccaag agacttttgg gagtgacaat gcttgatgtg 420
 gttcggggcca atacgtttgt ggctgaagtt cttgggtcttg atccaaggga tgtggatgtc 480
 ccagttgtcg gaggacatgc cggaatcacc attttacctc tgcttttctca ggttaaacca 540
 cattcctctt tcacgacaaa ggaaattgag tacttg 576

<210> 301
 <211> 592
 <212> DNA
 <213> Trifolium repens

<220>
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 <222> (9)..(10)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (19)..(19)
 <223> n is a, c, g, or t

<400> 301
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 gtatatggat actgctgctg ttgttcgagg gtttttgggg caaatcagc ttgaggatgc 120
 acttacaggt atggatttgg taatcattcc tgccggtgtt ccccgtaaac ctggaatgac 180
 aagagatgat ctcttcaata taaatgccgg gatcgttaaa acactctgtg aagcaattgc 240
 aaagcgatgt cctaaggcgg ttgtcaacgt gattagtaat ccggttaact ccaactgtccc 300
 cattgcggtc gaagttttca aaagagccgg tacttatgat cccaagagac ttttgggagt 360
 gacaatgctt gatgtggttc gggccaatac gtttgtggct gaagttcttg gtcttgatcc 420
 aagggatgtg gatgtcccag ttgtcggagg acatgccgga atcaccattt tacctctgct 480
 ttctcaggtt aaaccacatt cctctttcac gacaaaggaa attgagtact tgacagatcg 540
 catacaaac ggtggaactg aagttgttga ggccaaagct ggagctggct ct 592

<210> 302
 <211> 647
 <212> DNA
 <213> *Trifolium repens*

<220>
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 <222> (2)..(2)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (14)..(14)
 <223> n is a, c, g, or t

<400> 302
 gnaatcctct ttgnctcccc taccctcctt ttttttcctt ccttcttaca ccttctctta 60
 tcaactttcc acctctgaac aaaacttcaa tcttttctca ttttcttata cccttttaca 120
 aacttcttca taaagtgtta ggtttttttt tattactctt ttcaagaacc acaaaaacag 180
 tgtttcttga attctttgga attttttttt tcctgcaacc atggccttgg cacacttaaa 240
 caacccact tgctcaaaaa ctcaacttca ctcatcacia ctctcatttc tctctaggac 300
 tctccctagg caatatcact gtacttttgc accacttcac agaactcaac atggcagaat 360
 tacttgttct gttgcaccaa atcaagtgca ggctccagct gtacaatcac aggatcccaa 420
 gaataagcct gattgctatg gtgtcttctg ccttacctat gatttgaagg ctgaagagga 480
 gacaaaatcc tggaagaaat taatcaacat tgcagtctca ggtgctgctg gaatgatttc 540
 caatcatcta cttttcaagc ttgcatctgg tgaagttttt ggcccaaadc aacctattgc 600
 gctgaaatta ttaggatcag aaaggctcctt ccaagctctt gaagggtg 647

<210> 303

<211> 142
 <212> PRT
 <213> Trifolium repens

<400> 303

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Met Ala Leu Ala His Leu Asn Asn Pro Thr Cys Ser Lys Thr Gln Leu
1          5          10          15

His Ser Ser Gln Leu Ser Phe Leu Ser Arg Thr Leu Pro Arg Gln Tyr
          20          25          30

His Cys Thr Phe Ala Pro Leu His Arg Thr Gln His Gly Arg Ile Thr
          35          40          45

Cys Ser Val Ala Pro Asn Gln Val Gln Ala Pro Ala Val Gln Ser Gln
          50          55          60

Asp Pro Lys Asn Lys Pro Asp Cys Tyr Gly Val Phe Cys Leu Thr Tyr
65          70          75          80

Asp Leu Lys Ala Glu Glu Glu Thr Lys Ser Trp Lys Lys Leu Ile Asn
          85          90          95

Ile Ala Val Ser Gly Ala Ala Gly Met Ile Ser Asn His Leu Leu Phe
          100          105          110

Lys Leu Ala Ser Gly Glu Val Phe Gly Pro Asn Gln Pro Ile Ala Leu
          115          120          125

Lys Leu Leu Gly Ser Glu Arg Ser Phe Gln Ala Leu Glu Gly
          130          135          140

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<210> 304
 <211> 602
 <212> DNA
 <213> Trifolium repens

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 <223> n is a, c, g, or t

<220>
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 <222> (14)..(14)
 <223> n is a, c, g, or t

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<400> 304
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caactttcca cctctgaaca aaacttctat cttttctcat tttcttatac ctttttagaa      120
acttcttcat aaagtgttat ttttttttat tactcttttc aagaatcaca aaaacagtgt      180

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ttcttgaatt ctttgtaatt ttttttttcc tgcaaccatg gccttggcac agttaaacia	240
tcccacttgc tcaaaaactc aacttcactc atcacaaactc tcatttttgt ctaggactct	300
ccctaggcaa tatcactgta cttttgcacc acttcacaga actcaacatg gcagaattac	360
ttgtttctgtt gcaccaaactc aagtgcaggc tccagctgta caatcacagg atcccaagaa	420
taagcctgat tgctatggtg tcttctgcct tacctatgat ttgaaggctg aagaggagac	480
aaaatcctgg aagaaattaa tcaacattgc agtctcaggt gctgctggaa tgatttccaa	540
tcattctactt ttcaagcttg catctggtga agtttttggg ccaaataaac ctattgcgct	600
ga	602

<210> 305
 <211> 599
 <212> DNA
 <213> *Trifolium repens*

<220>
 <221> misc_feature
 <222> (27)..(27)
 <223> n is a, c, g, or t

<400> 305	
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tatacccttt taaaaacttc ttcataaagt gttgggtttt tttttattac tcttttcaag	120
aaccacaaaa acagtgtttc ttgaattctt ggaatttttt tttcctgcaa ccatggcttt	180
ggcacactta aacaacccca ctgtctcaaa aactcaactt cattcatcac agctctcatt	240
tctctctagg actctcccta ggcaatatca ctgtactttt gcaccacttc acagaactca	300
acatggcaga attacttggt ctgttgcacc aaatcaagtg caggctccag ctgtacaatc	360
acaggatccc aagaataagc ctgattgcta tgggtgtcttc tgccttacct atgatttgaa	420
ggctgaagag gagacaaaat cctggaagaa attaatcaac attgcagtct cagggtgctgc	480
tggaatgatt tccaatcatc tacttttcaa gcttgcattt ggtgaagttt ttggcccaaa	540
tcaacctatt gcgctgaaat tattaggatc agaaagggtc ttccaagctc ttgaagggtg	599

<210> 306
 <211> 569
 <212> DNA
 <213> *Trifolium repens*

<220>
 <221> misc_feature
 <222> (8)..(8)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature

<222> (12)..(12)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (14)..(14)
<223> n is a, c, g, or t

<400> 306
gcaaagcnct cncngacctg gtgtggagcg agcagctttg ctagacataa atgggcagat 60
ttttgcgagg cagggaaaag ctctaaatgc agtcgcatct cgcaatgtca aagttatagt 120
tgtgggaaac ctttgcaata caaatgcatt aatatgcttg aagaatgctc caaatattcc 180
tgcaaaaaat tttcatgctt taaccggtt agatgagaac agagcaaaat gtcagctagc 240
cctcaaggca ggtgtcttct acgataaagt gtcgaatatg acgatatggg gaaaccactc 300
aactactcag gtccccgatt tcttaaagtc cagaatcgat ggtttgcttg tcaaagaagt 360
gattaaggat caaaagtggg tagaggaaga gttcaccgaa aaagttcaaa agagaggtgg 420
cgtgcttatt caaaagtggg gaagatcgct tgctgcatca acttctgtgt cgatagttga 480
tgccatacga tctttgatca ctctactcc ggagggtgat tggttttcta ctggtgtgta 540
tacagctgga aatccttatg gaatagctg 569

<210> 307
<211> 189
<212> PRT
<213> Trifolium repens

<220>
<221> misc_feature
<222> (3)..(5)
<223> Xaa can be any naturally occurring amino acid

<400> 307

Gln Ser Xaa Xaa Xaa Pro Gly Val Glu Arg Ala Ala Leu Leu Asp Ile
1 5 10 15

Asn Gly Gln Ile Phe Ala Glu Gln Gly Lys Ala Leu Asn Ala Val Ala
20 25 30

Ser Arg Asn Val Lys Val Ile Val Val Gly Asn Pro Cys Asn Thr Asn
35 40 45

Ala Leu Ile Cys Leu Lys Asn Ala Pro Asn Ile Pro Ala Lys Asn Phe
50 55 60

His Ala Leu Thr Arg Leu Asp Glu Asn Arg Ala Lys Cys Gln Leu Ala
65 70 75 80

Leu Lys Ala Gly Val Phe Tyr Asp Lys Val Ser Asn Met Thr Ile Trp
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	85		90		95
Gly Asn His	Ser Thr Thr Gln Val	Pro Asp Phe Leu Asn	Ala Arg Ile		
	100	105	110		
Asp Gly Leu	Pro Val Lys Glu Val	Ile Lys Asp Gln Lys	Trp Leu Glu		
	115	120	125		
Glu Glu Phe Thr	Glu Lys Val Gln Lys Arg	Gly Gly Val Leu Ile	Gln		
	130	135	140		
Lys Trp Gly Arg Ser	Ser Ala Ala Ser Thr	Ser Val Ser Ile Val	Asp		
	145	150	155	160	
Ala Ile Arg Ser	Leu Ile Thr Pro Thr	Pro Glu Gly Asp Trp	Phe Ser		
	165	170	175		
Thr Gly Val Tyr	Thr Ala Gly Asn Pro Tyr Gly Ile Ala				
	180	185			

<210> 308
 <211> 558
 <212> DNA
 <213> Trifolium repens

<220>
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 <222> (2)..(2)
 <223> n is a, c, g, or t

<400> 308	
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gctgcttgtg tcgtcgccctc cagctcctcc tcttccactg tgccaaccga attacaaacc	120
aaaaaaatgg cgacttgttt gcaaacacaa ctctccaca caagaccttt tcagtttcgg	180
tcttctcgt cgacaagacc aacttccta agatgttccg ccgccacccc atccaccaa	240
aatcctaca aaatcactct tcttccgggt gatggcatag gtcctgaagt cgtttccgtc	300
gctaaagacg ttcttctcct cactggatcc atccatggga ttaaacttga gtttcaagag	360
aagcttttgg gtggtgctgc tcttgatgct actggagttc ctttacctga tgatactctt	420
tctgttgcta agcaatctga tgctgttctt cttggtgcta ttggagggta taaatgggat	480
aaaaatgaga aacagctgaa gccagaaact ggattgcttc agctacgaga agggcttcaa	540
gtttttgcta atctcaga	558

<210> 309
 <211> 144
 <212> PRT
 <213> Trifolium repens

<400> 309

Met Ala Thr Cys Leu Gln Thr Gln Leu Leu His Thr Arg Pro Phe Gln
1 5 10 15

Phe Arg Ser Ser Ser Ser Thr Arg Pro Thr Ser Leu Arg Cys Ser Ala
20 25 30

Ala Thr Pro Ser Thr Lys Lys Ser Tyr Lys Ile Thr Leu Leu Pro Gly
35 40 45

Asp Gly Ile Gly Pro Glu Val Val Ser Val Ala Lys Asp Val Leu Leu
50 55 60

Leu Thr Gly Ser Ile His Gly Ile Lys Leu Glu Phe Gln Glu Lys Leu
65 70 75 80

Leu Gly Gly Ala Ala Leu Asp Ala Thr Gly Val Pro Leu Pro Asp Asp
85 90 95

Thr Leu Ser Val Ala Lys Gln Ser Asp Ala Val Leu Leu Gly Ala Ile
100 105 110

Gly Gly Tyr Lys Trp Asp Lys Asn Glu Lys Gln Leu Lys Pro Glu Thr
115 120 125

Gly Leu Leu Gln Leu Arg Glu Gly Leu Gln Val Phe Ala Asn Leu Arg
130 135 140

<210> 310

<211> 713

<212> DNA

<213> Trifolium repens

<220>

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<222> (2)..(3)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (9)..(9)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (663)..(663)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (713)..(713)

<223> n is a, c, g, or t


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<400> 310
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atggcctcaa gtgcaagcga tgccttgca gtagagcttt tacagaagga tgcacgtctt 120
acagtttggt gagaattagg aagagcatgt ccgggtggaa cgcttcgggt ggttcctcta 180
tttgaaactg tgcaagacct gagaggagct ggtgcagtta tcagaaaact tttatcaatc 240
gattggtacc gccaacacat cattaagaac cataacggac accaagaggt tatggtcggt 300
tattctgatt ctggtaaaga tgccgggcgc tttactgctg cttgggaact ttacaaagct 360
caagaggatg tagtggtgctc ttgcaataag tacgatacta aggttacttt gttccacggc 420
cgcgaggagg gtattggacg tggcggaggc ccaacatata tggctattca gtcccagcca 480
cctggctctg tgatgggaac ctttcggtca actgagcagg gagagatggt gcaggccgag 540
tttgggttgc cacagacagc agttagacaa cttgaaatat acacaacagc tgtgctactt 600
gctacacgtc gtccaccact cccacctcga gaagaaaaat ggcgtaatct aatggaagac 660
atntcaaaaa tcagttgtca gtcctaccgc agtgtagtct atgaaaatcc agn 713

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<210> 311
<211> 237
<212> PRT
<213> Trifolium repens

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<220>
<221> misc_feature
<222> (1)..(1)
<223> Xaa can be any naturally occurring amino acid

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<220>
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<222> (3)..(3)
<223> Xaa can be any naturally occurring amino acid

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<220>
<221> misc_feature
<222> (221)..(221)
<223> Xaa can be any naturally occurring amino acid

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<400> 311

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Xaa Thr Xaa Pro Asn Ala Ala Glu Leu Gly Ser Asp Ser Leu Gly Ala
1          5          10          15

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Tyr Val Ile Ser Met Ala Ser Ser Ala Ser Asp Val Leu Ala Val Glu
20          25          30

```

```

Leu Leu Gln Lys Asp Ala Arg Leu Thr Val Cys Gly Glu Leu Gly Arg
35          40          45

```

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Ala Cys Pro Gly Gly Thr Leu Arg Val Val Pro Leu Phe Glu Thr Val
50          55          60

```

Gln Asp Leu Arg Gly Ala Gly Ala Val Ile Arg Lys Leu Leu Ser Ile
 65 70 75 80
 Asp Trp Tyr Arg Gln His Ile Ile Lys Asn His Asn Gly His Gln Glu
 85 90 95
 Val Met Val Gly Tyr Ser Asp Ser Gly Lys Asp Ala Gly Arg Phe Thr
 100 105 110
 Ala Ala Trp Glu Leu Tyr Lys Ala Gln Glu Asp Val Val Ala Ala Cys
 115 120 125
 Asn Lys Tyr Asp Thr Lys Val Thr Leu Phe His Gly Arg Gly Gly Ser
 130 135 140
 Ile Gly Arg Gly Gly Gly Pro Thr Tyr Leu Ala Ile Gln Ser Gln Pro
 145 150 155 160
 Pro Gly Ser Val Met Gly Thr Leu Arg Ser Thr Glu Gln Gly Glu Met
 165 170 175
 Val Gln Ala Glu Phe Gly Leu Pro Gln Thr Ala Val Arg Gln Leu Glu
 180 185 190
 Ile Tyr Thr Thr Ala Val Leu Leu Ala Thr Arg Arg Pro Pro Leu Pro
 195 200 205
 Pro Arg Glu Glu Lys Trp Arg Asn Leu Met Glu Asp Xaa Ser Lys Ile
 210 215 220
 Ser Cys Gln Ser Tyr Arg Ser Val Val Tyr Glu Asn Pro
 225 230 235

<210> 312
 <211> 576
 <212> DNA
 <213> Trifolium repens

<220>
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 <222> (2)..(3)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (9)..(9)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature

<222> (575)..(576)
<223> n is a, c, g, or t

<400> 312
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atggcctcaa gtgcaagcga tgtccttgca gtagagcttt tcagaaggat gcacgacttg 120
ctgctattgg agagttcgga agagcatgtc ctggtggaac gttgcggggt gtccctctat 180
ttgaaactgt gaaggaccta agaggagctg gttcagttat ccggaaactt ttatcgatag 240
actggtaccg tgaacacatc attaagaacc acaatggaca tcaagagggt atggttggat 300
attctgattc gggtaaagat gctggccgct tctactgctgc ttgggaactt taaaaagctc 360
aggaggatgt ttagctgct tgcaatgatt atggtattaa agttacactg tttcatggcc 420
gtggaggcag tattggtcga ggtggtggcc ctacatatct ggctattcag tcccaaccac 480
ctgggtctgt gatgggaaca cttcggctca ctgagcaggg agaaatggta gaggccaagt 540
ttgggttacc acagatagct gttagacaac ttgann 576

<210> 313
<211> 570
<212> DNA
<213> *Trifolium repens*

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<222> (2)..(2)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (570)..(570)
<223> n is a, c, g, or t

<400> 313
gnacttttac agaaggatgc acgtcttaca gtttgtggag aattaggaag agcatgtccg 60
ggtggaacgc ttcgggtggt tcctctatth gaaactgtgc aagacctgag aggagctggt 120
gcagttatca gaaaactttt atcaatcgat tggtagccgc aacacatcat taagaaccat 180
aacggacacc aagaggttat ggtcggttat tctgattctg gtaaagatgc cgggcgcttt 240
actgctgctt gggaacttta caaagctcaa gaggatgtag tggctgcttg caataagtac 300
gatactaagg ttactttggt ccacggccgc ggaggagta ttggacgtgg cggaggccca 360
acatatctgg ctattcagtc ccagccacct ggctctgtga tgggaaccct tcggtcaact 420
gagcagggag agatggtgca ggccgagttt gggttgccac agacagcagt tagacaactt 480
gaaatataca caacagctgt gctacttgct acacgtcgtc caccactccc acctcgagaa 540
gaaaaatggc gtaatctaata ggaagacatn 570

<210> 314

<211> 619
<212> DNA
<213> Trifolium repens

<220>
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<222> (13)..(13)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (619)..(619)
<223> n is a, c, g, or t

<400> 314
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gtggaacgct tcgggtggtt cctctatttg aaactgtgca agacctgaga ggagctggtg 120
cagttatcag aaaacttttta tcaatcgatt ggtaccgcca acacatcatt aagaaccata 180
acggacacca agaggttatg gtcggttatt ctgattctgg taaagatgcc gggcgcttta 240
ctgctgcttg ggaactttac aaagctcaag aggatgtagt ggctgcttgc aataagtacg 300
atactaaggt tactttgttc cacggccgcg gagggagtat tggacgtggc ggaggcccaa 360
catatctggc tattcagtcc cagccacctg gctctgtgat ggaaccctt cggtaactg 420
agcagggaga gatggtgcag gccgagtttg gggtgccaca gacagcagtt agacaacttg 480
aaatatacac aacagctgtg ctacttgcta cacgtcgtcc accactcca cctcgagaag 540
aaaaatggcg taatctaag gaagacattt caaaaatcag ttgtcagtcc taccgcagtg 600
tagtctatga aaatccagn 619

<210> 315
<211> 598
<212> DNA
<213> Trifolium repens

<220>
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<222> (2)..(2)
<223> n is a, c, g, or t

<400> 315
gnaagggaca agctctatcg tactcgtgag cggctctcgt atctcttagc tcatggctat 60
tctgaaattc ctgaagaagc cacattcacc gatgttgatg agttcttgga acctcttgaa 120
ctatgctaca gatcactctg tgcttggtgat gatcgtgcga ttgccgatgg aagccttctt 180
gatttcttga ggcaagtttc cacttttgga ctgtcactgg taagacttga tataaggcaa 240
gagtcagatc gtcacacgga cgtgatggat gccattacca aacatttgga aattggatcc 300
taccaagact ggtctgaaga aaaaagacag gaatggcttt tgtctgagtt gggtggcaaa 360
aggccgcttt ttggacctga cctacctcaa accgatgaaa ttagagaagt ttagagaca 420

tttcatgtca tagcagaact tccatcagac aactttggag cctatatcat ttcgatggca 480
 actgccccgt ctgatgtgct agcggttgaa cttcttcaac gtgaatgcaa aatcaagaat 540
 ccgttaagag ttgttccgtt gtttgagaaa cttgctgata tcgagtctgc tcctgctg 598

<210> 316
 <211> 199
 <212> PRT
 <213> Trifolium repens

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> Xaa can be any naturally occurring amino acid
 <400> 316

Xaa Arg Asp Lys Leu Tyr Arg Thr Arg Glu Arg Ser Arg Tyr Leu Leu
 1 5 10 15

Ala His Gly Tyr Ser Glu Ile Pro Glu Glu Ala Thr Phe Thr Asp Val
 20 25 30

Asp Glu Phe Leu Glu Pro Leu Glu Leu Cys Tyr Arg Ser Leu Cys Ala
 35 40 45

Cys Gly Asp Arg Ala Ile Ala Asp Gly Ser Leu Leu Asp Phe Leu Arg
 50 55 60

Gln Val Ser Thr Phe Gly Leu Ser Leu Val Arg Leu Asp Ile Arg Gln
 65 70 75 80

Glu Ser Asp Arg His Thr Asp Val Met Asp Ala Ile Thr Lys His Leu
 85 90 95

Glu Ile Gly Ser Tyr Gln Asp Trp Ser Glu Glu Lys Arg Gln Glu Trp
 100 105 110

Leu Leu Ser Glu Leu Val Gly Lys Arg Pro Leu Phe Gly Pro Asp Leu
 115 120 125

Pro Gln Thr Asp Glu Ile Arg Glu Val Leu Glu Thr Phe His Val Ile
 130 135 140

Ala Glu Leu Pro Ser Asp Asn Phe Gly Ala Tyr Ile Ile Ser Met Ala
 145 150 155 160

Thr Ala Pro Ser Asp Val Leu Ala Val Glu Leu Leu Gln Arg Glu Cys
 165 170 175

Lys Ile Lys Asn Pro Leu Arg Val Val Pro Leu Phe Glu Lys Leu Ala
180 185 190

Asp Leu Glu Ser Ala Pro Ala
195

<210> 317
<211> 598
<212> DNA
<213> Trifolium repens

<220>
<221> misc_feature
<222> (2)..(2)
<223> n is a, c, g, or t

<400> 317
gnaagggaca agctctatcg tactcgtgag cggctctcgct atctcttagc tcatggctat 60
tctgaaattc ctgaagaagc cacattcacc gatgttgatg agttcttgga acctcttgaa 120
ctatgctaca gatcactctg tgcttggtgat gatcgtgcga ttgccgatgg aagccttctt 180
gatttcttga ggcaagtttc cacttttgga ctgtcactgg taagacttga tataaggcaa 240
gagtcagatc gtcacacgga cgtgatggat gccattacca aacatttgga aattggatcc 300
taccaagact ggtctgaaga aaaaagacag gaatggcttt tgtctgagtt gggtggcaaa 360
aggccgcttt ttggacctga cctacctcaa accgatgaaa ttagagaagt tttagagaca 420
tttcatgtca tagcagaact tccatcagac aactttggag cctatatcat ttcgatggca 480
actgccccgt ctgatgtgct agcggttgaa cttcttcaac gtgaatgcaa aatcaagaat 540
ccgttaagag ttgttccgtt gtttgagaaa cttgctgac tcgagtctgc tcctgctg 598

<210> 318
<211> 584
<212> DNA
<213> Trifolium repens

<220>
<221> misc_feature
<222> (584)..(584)
<223> n is a, c, g, or t

<400> 318
gtaagggaca agctctatcg tactcgtgag cggctctcgct atctcttagc tcatggctat 60
tctgaaattc ctgaagaagc cacattcacc gatgttgatg agttcttgga acctcttgaa 120
ctatgctaca gatcactctg tgcttggtgat gatcgtgcga ttgccgatgg aagccttctt 180
gatttcttga ggcaagtttc cacttttgga ctgtcactgg taagacttga tataaggcaa 240
gagtcagatc gtcacacgga cgtgatggat gccattacca aacatttgga aattggatcc 300

taccaagact ggtctgaaga aaaaagacag gaatggcttt tgtctgagtt ggttggcaaa 360
 aggccgcttt ttggacctga cctacctcaa accgatgaaa ttagagaagt ttagagaca 420
 tttcatgtca tagcagaact tccatcagac aactttggag cctatatcat ttcgatggca 480
 actgccccgt ctgatgtgct agcggttgaa cttcttcaac gtgaatgcaa aatcaagaat 540
 ccgttaagag ttgttccgtt gtttgagaaa cttgctgata tcgn 584

<210> 319
 <211> 575
 <212> DNA
 <213> Trifolium repens

<220>
 <221> misc_feature
 <222> (15)..(15)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (575)..(575)
 <223> n is a, c, g, or t

<400> 319
 gtcacatgac aaacnatatc tccctttctc taactccgtg atcaaggcgt tagttagtta 60
 cacaaattgc tgtaggttt cgttgtactt tcccgtagaa tccatagtat cttggaggaa 120
 caaactagat tttccaccta ggtagtcacg agattttcct cttcactatt tttctttttc 180
 atataataac tcaacacttt ttctagctac ttactagtac tgtgtaacac aaattttatt 240
 cattatggct actcctcgca acattgaaaa aatggcttca attgatgctc aattgagact 300
 actagacca aggaaagttt ctgatgatga taaacttgct gagtatgatg ctttgttatt 360
 ggatcgattc cttgacattc ttcaagattt gcatggagaa gatatcagac aaactgttca 420
 agattgttat gagttatcgg cagagtatga aggggagctt aagccggaga aattggagga 480
 acttgggaat atgcttactg gtcttgatgc tggagattct attgttatag caaatcatt 540
 ttctcatatg cttaatttgg caaacttggc agagn 575

<210> 320
 <211> 110
 <212> PRT
 <213> Trifolium repens

<400> 320

Met Ala Thr Pro Arg Asn Ile Glu Lys Met Ala Ser Ile Asp Ala Gln
 1 5 10 15

Leu Arg Leu Leu Ala Pro Arg Lys Val Ser Asp Asp Asp Lys Leu Val
 20 25 30

Glu Tyr Asp Ala Leu Leu Leu Asp Arg Phe Leu Asp Ile Leu Gln Asp
35 40 45

Leu His Gly Glu Asp Ile Arg Gln Thr Val Gln Asp Cys Tyr Glu Leu
50 55 60

Ser Ala Glu Tyr Glu Gly Glu Leu Lys Pro Glu Lys Leu Glu Glu Leu
65 70 75 80

Gly Asn Met Leu Thr Gly Leu Asp Ala Gly Asp Ser Ile Val Ile Ala
85 90 95

Lys Ser Phe Ser His Met Leu Asn Leu Ala Asn Leu Ala Glu
100 105 110

<210> 321
<211> 575
<212> DNA
<213> Trifolium repens

<220>
<221> misc_feature
<222> (12)..(12)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (575)..(575)
<223> n is a, c, g, or t

<400> 321
gtcacatgac tnactatatc tccctttctc taactccgtg atcaaggcgt tagttagtta 60
cacaaattgc tgttagggtt cgttgtactt tcccgtgcaa tccatagtat cttggaggaa 120
caaactagat tttccaccta ggtcgtcacg agattttcct cttcactatt tttctttttc 180
atataataac tcaacacttt ttctagctac ttactagtac tgtgtaacac aaattttatt 240
cattatggct actcctcgca acattgaaaa aatggcttca attgatgctc aattgagact 300
actagacca aggaaagttt ctgatgatga taaacttgtc gagtatgatg ctttggttatt 360
ggatcgattc cttgacattc ttcaagattt gcatggagaa gatatcagac aaactgttca 420
agattgttat gagttatcgg cagagtatga aggggagctt atgccggaga aattggagga 480
acttggaat atgcttactg gtcttgatgc tggagattct attgttatag caaatcatt 540
ttctcatatg cttaatttgg caaacttggc agagn 575

<210> 322
<211> 537
<212> DNA
<213> Trifolium repens

<220>
 <221> misc_feature
 <222> (9)..(9)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (537)..(537)
 <223> n is a, c, g, or t

<400> 322
 tgacaaacna tatctccctt tctctaactc cgtgatcaag gcgtagtta gttacacaaa 60
 ttgctgtag gtttcgttgt actttcccg gcaatccata gtatcttgga ggaacaaact 120
 agattttcca cctaggttgt cacgagattt tcctcttcac tatttttctt tttcatataa 180
 taattcaaca ctttttctag ctacttacta gtactgtgta acacaaattt tattcattat 240
 ggctactcct cgcaacattg aaaaaatggc ttcaattgat gctcaattga gactactagc 300
 accaaggaaa gtttctgatg atgataaact tgtcgagtat gatgctttgt tattggatcg 360
 attccttgac attcttcaag atttgcattg agaagatatt agacaaactg ttcaagattg 420
 ttatgagtta tcggcagagt atgaagggga gcttaagccg gagaaattgg aggaacttgg 480
 gaatatgctt actggtcttg atgctggaga ttctattggt atagcaaaat cattttt 537

<210> 323
 <211> 854
 <212> DNA
 <213> Trifolium repens

<220>
 <221> misc_feature
 <222> (583)..(583)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (589)..(589)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (596)..(596)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (602)..(602)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (608)..(608)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (708)..(708)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (737)..(737)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (762)..(762)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (775)..(775)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (786)..(786)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (789)..(789)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (795)..(797)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (816)..(816)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (830)..(830)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (834)..(834)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (853)..(854)

<223> n is a, c, g, or t

<400> 323

agaagatctc atgtttgagt tgtctatgtg gcgctgcaac gacgagctcc gtgttagagc 60

tgaagagctt catagatcct caaagaaaga tgcaaaacat tatattgagt tttggaaaca 120

gattcctcca aacgagccat atcgtgttat tcttgagggt gtgagggaca aactgtataa 180

tacacgtgaa cgtgctcgac agttattagc aaatggaacc tctgacatcc ttgaagagac 240

aaccttcacg aatgttgagc agtttctgga gcctcttgaa ctgtgttata ggtcactttg 300

tgcatgtggt gaccgatcaa tagcagacgg aagccttctt gatttcttgc gacaagtttc 360

tacatttggga ctttcacttg taagactcga catccgtcaa gagtcagaca ggcacacaga	420
cgttatgggat gcaattacaa aacacttggga gattggatct taccgagaat ggtcgggaaga	480
acgcaggcag gaatggctct tgtctgagct tagtggaataa cgccctctct tcggccatga	540
tcttcctaag acagaagaaa ttgccgatgt ttagataacc ttncacgtna tttcanaact	600
tncctcanat agctttggtg cctatatcat ctcaatggca acctcccat ctgatgtgct	660
agctgtcgag cttttacaac gtgaatgtca tgtgaagcag ccgttaanag ttgttcact	720
gtttgaaaag ctcgccngtc ttgagtctgc tcctgctgcg gnagcgcgtt tttntttaga	780
ttgggncana accgnnntaa tggaaagcag aagtntgat aggtactcan actngggaaa	840
agatgctggc cgnn	854

<210> 324
 <211> 284
 <212> PRT
 <213> Trifolium repens

<220>
 <221> misc_feature
 <222> (194)..(194)
 <223> Xaa can be any naturally occurring amino acid

<220>
 <221> misc_feature
 <222> (196)..(196)
 <223> Xaa can be any naturally occurring amino acid

<220>
 <221> misc_feature
 <222> (199)..(199)
 <223> Xaa can be any naturally occurring amino acid

<220>
 <221> misc_feature
 <222> (201)..(201)
 <223> Xaa can be any naturally occurring amino acid

<220>
 <221> misc_feature
 <222> (203)..(203)
 <223> Xaa can be any naturally occurring amino acid

<220>
 <221> misc_feature
 <222> (236)..(236)
 <223> Xaa can be any naturally occurring amino acid

<220>
 <221> misc_feature
 <222> (246)..(246)
 <223> Xaa can be any naturally occurring amino acid

<220>
 <221> misc_feature
 <222> (254)..(254)

<223> Xaa can be any naturally occurring amino acid

<220>

<221> misc_feature

<222> (258)..(258)

<223> Xaa can be any naturally occurring amino acid

<220>

<221> misc_feature

<222> (262)..(263)

<223> Xaa can be any naturally occurring amino acid

<220>

<221> misc_feature

<222> (265)..(266)

<223> Xaa can be any naturally occurring amino acid

<220>

<221> misc_feature

<222> (272)..(272)

<223> Xaa can be any naturally occurring amino acid

<220>

<221> misc_feature

<222> (277)..(278)

<223> Xaa can be any naturally occurring amino acid

<220>

<221> misc_feature

<222> (284)..(284)

<223> Xaa can be any naturally occurring amino acid

<400> 324

Glu Asp Leu Met Phe Glu Leu Ser Met Trp Arg Cys Asn Asp Glu Leu
1 5 10 15

Arg Val Arg Ala Glu Glu Leu His Arg Ser Ser Lys Lys Asp Ala Lys
20 25 30

His Tyr Ile Glu Phe Trp Lys Gln Ile Pro Pro Asn Glu Pro Tyr Arg
35 40 45

Val Ile Leu Gly Gly Val Arg Asp Lys Leu Tyr Asn Thr Arg Glu Arg
50 55 60

Ala Arg Gln Leu Leu Ala Asn Gly Thr Ser Asp Ile Leu Glu Glu Thr
65 70 75 80

Thr Phe Thr Asn Val Glu Gln Phe Leu Glu Pro Leu Glu Leu Cys Tyr
85 90 95

Arg Ser Leu Cys Ala Cys Gly Asp Arg Ser Ile Ala Asp Gly Ser Leu
100 105 110

Leu Asp Phe Leu Arg Gln Val Ser Thr Phe Gly Leu Ser Leu Val Arg
115 120 125

Leu Asp Ile Arg Gln Glu Ser Asp Arg His Thr Asp Val Met Asp Ala
 130 135 140
 Ile Thr Lys His Leu Glu Ile Gly Ser Tyr Arg Glu Trp Ser Glu Glu
 145 150 155 160
 Arg Arg Gln Glu Trp Leu Leu Ser Glu Leu Ser Gly Lys Arg Pro Leu
 165 170 175
 Phe Gly His Asp Leu Pro Lys Thr Glu Glu Ile Ala Asp Val Leu Asp
 180 185 190
 Thr Xaa His Xaa Ile Ser Xaa Leu Xaa Ser Xaa Ser Phe Gly Ala Tyr
 195 200 205
 Ile Ile Ser Met Ala Thr Ser Pro Ser Asp Val Leu Ala Val Glu Leu
 210 215 220
 Leu Gln Arg Glu Cys His Val Lys Gln Pro Leu Xaa Val Val Pro Leu
 225 230 235 240
 Phe Glu Lys Leu Ala Xaa Leu Glu Ser Ala Pro Ala Ala Xaa Ala Arg
 245 250 255
 Phe Xaa Leu Asp Trp Xaa Xaa Thr Xaa Xaa Met Glu Ser Arg Ser Xaa
 260 265 270
 Asp Arg Tyr Ser Xaa Xaa Gly Lys Asp Ala Gly Xaa
 275 280

<210> 325
 <211> 693
 <212> DNA
 <213> Trifolium repens

<220>
 <221> misc_feature
 <222> (17)..(17)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (573)..(573)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (592)..(593)
 <223> n is a, c, g, or t

<220>

<221> misc_feature
 <222> (639)..(639)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (641)..(641)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (644)..(644)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (654)..(656)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (663)..(663)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (669)..(669)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (675)..(675)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (679)..(679)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (685)..(686)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (691)..(693)
 <223> n is a, c, g, or t

<400> 325
 gttcactgtc tctctgncca attttcctcc cttgtcttct ttttcttctt cttcctcgta 60
 tcttactgcc tcattacacg ggtgagaagg agtgaattgc tccaatggca acaaacaaaa 120
 tggaaaaaat ggcacatcaatt gatgcacagc ttagacaatt agtaccagca aaagtttagtg 180
 aagatgataa acttattgag tatgatgctt tgttgttgga tcggtttctt gatatccttc 240
 aggatttaca tggagaggat ctgaaagatt ctgttcaaga agtgtatgaa ctttctgcgg 300
 agtatgaaag aaagcatgat cctaagaaac ttgaagagct cggaaatttg ataacaagtt 360
 tagatgcagg agattcaatt gttgttgcta agtccttttc gcacatgctt aacttggcca 420

acttagctga agaggttcag attgctcatc gtcgaaggaa caagttgaag aaaggagatt	480
ttagggatga gagcaatgca actaccgaat cagacatcga agaaactctt aagagacttg	540
tgtttaatat gaagaaatct cctcaggaag ttnttgatgc gttgaagaac cnnaccgttg	600
atttggttct tactgctcat cccactcagt ccgttcgang nccnctgctt cccnnngcct	660
ggnacgggna ccgcnctgnc taccnnactg nnn	693

<210> 326
 <211> 196
 <212> PRT
 <213> Trifolium repens

<220>
 <221> misc_feature
 <222> (157)..(157)
 <223> Xaa can be any naturally occurring amino acid

<220>
 <221> misc_feature
 <222> (163)..(163)
 <223> Xaa can be any naturally occurring amino acid

<220>
 <221> misc_feature
 <222> (179)..(180)
 <223> Xaa can be any naturally occurring amino acid

<220>
 <221> misc_feature
 <222> (184)..(184)
 <223> Xaa can be any naturally occurring amino acid

<220>
 <221> misc_feature
 <222> (187)..(187)
 <223> Xaa can be any naturally occurring amino acid

<220>
 <221> misc_feature
 <222> (189)..(189)
 <223> Xaa can be any naturally occurring amino acid

<220>
 <221> misc_feature
 <222> (191)..(192)
 <223> Xaa can be any naturally occurring amino acid

<220>
 <221> misc_feature
 <222> (194)..(194)
 <223> Xaa can be any naturally occurring amino acid

<220>
 <221> misc_feature
 <222> (196)..(196)
 <223> Xaa can be any naturally occurring amino acid

<400> 326

Met Ala Thr Asn Lys Met Glu Lys Met Ala Ser Ile Asp Ala Gln Leu
 1 5 10 15
 Arg Gln Leu Val Pro Ala Lys Val Ser Glu Asp Asp Lys Leu Ile Glu
 20 25 30
 Tyr Asp Ala Leu Leu Leu Asp Arg Phe Leu Asp Ile Leu Gln Asp Leu
 35 40 45
 His Gly Glu Asp Leu Lys Asp Ser Val Gln Glu Val Tyr Glu Leu Ser
 50 55 60
 Ala Glu Tyr Glu Arg Lys His Asp Pro Lys Lys Leu Glu Glu Leu Gly
 65 70 75 80
 Asn Leu Ile Thr Ser Leu Asp Ala Gly Asp Ser Ile Val Val Ala Lys
 85 90 95
 Ser Phe Ser His Met Leu Asn Leu Ala Asn Leu Ala Glu Glu Val Gln
 100 105 110
 Ile Ala His Arg Arg Arg Asn Lys Leu Lys Lys Gly Asp Phe Arg Asp
 115 120 125
 Glu Ser Asn Ala Thr Thr Glu Ser Asp Ile Glu Glu Thr Leu Lys Arg
 130 135 140
 Leu Val Phe Asn Met Lys Lys Ser Pro Gln Glu Val Xaa Asp Ala Leu
 145 150 155 160
 Lys Asn Xaa Thr Val Asp Leu Val Leu Thr Ala His Pro Thr Gln Ser
 165 170 175
 Val Arg Xaa Xaa Leu Leu Pro Xaa Ala Trp Xaa Gly Xaa Arg Xaa Xaa
 180 185 190
 Tyr Xaa Thr Xaa
 195

<210> 327
 <211> 1307
 <212> DNA
 <213> Trifolium repens

<220>
 <221> misc_feature
 <222> (2)..(4)
 <223> n is a, c, g, or t

<220> .

<221> misc_feature
 <222> (6)..(6)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (8)..(8)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (23)..(23)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (33)..(33)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (988)..(988)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (1307)..(1307)
 <223> n is a, c, g, or t

<400> 327
 gnnncncnac cattacatta atnacacttt ccnctttcgc cttgtttcttt ctctttctcaa 60
 tataaagacc aattcaattc ccaattcttt tggatccgaa atcattcatt ctacgcgtct 120
 tctctcttct ctgcgtttca aaccctagtt gttttgttga ttgatctaaa tggcgttctt 180
 tcgaagcggt tctgcgtttt caaaactacg atctcgtgtg ggtcaacaac ctagtcttgc 240
 taattcagtt agatggctcc aaactccaag ctccagtaac actgatcttt attctgagat 300
 gaaggagcta gttccagagt atcaggaacg tgtaagaag ttgaagaaag accatggaag 360
 tgttgaattg ggaaaaatca cagctgatat ggtacttggg ggaatgagag gaatgactgc 420
 tttagtgtgg ctaggctcag ctgttgaccc agatgagggg attcgcttta ggggcatgac 480
 aattcctgac tgccagaaaa cacttccagg tgcttttcct ggtggggagc ctttgcccga 540
 ggctatactg tggcttctat tgaccggaaa ggtaccaagt aaagagcaag tagattcatt 600
 agctcacgaa ttgcgaagtc gtgcaaaaat cccagagtat gcttacaagg caattgatgc 660
 actgcctgtt tctgctcatc caatgacaca atttagtact ggtgtaatgg ccctccaggt 720
 ggagagttag ttacaaagg catacgagag tgggatacat aagtcaaggt attgggagcc 780
 aacttatgag gatagcttga atttaattgc tcgtttgcct ggaattgctg cctatattta 840
 tcgacggata tacaaggatg gaaaaatcat accattggat gattctttgg attatggtgc 900
 aaactatgct cacatgttag gatttgatga tccagaaacg ctggagttaa tgaggctgta 960
 tatttctatc catagtgatc atgaaggngg caacgttagt tctcacacag ctcacctagt 1020

tgctagttca ctatcagatc cttatcttgc attcgcagct gctctgaatg gtttagctgg 1080
 cccactgcat ggttttagcca atcaggaagt tctacgatgg atcagaaaca tagttaagga 1140
 gtttggaact ccaaacataa gtacagaaca attgagcgac tacattcata aaacattgaa 1200
 cagtggccag gttgtgcctg gatatggaca tggagttttg cgcaatacag acccaagata 1260
 cacttgccag agggagtttg cattgaagca tttgcctaata gatccan 1307

<210> 328
 <211> 378
 <212> PRT
 <213> *Trifolium repens*

<400> 328

Met Ala Phe Phe Arg Ser Val Ser Ala Leu Ser Lys Leu Arg Ser Arg
1 5 10 15

Val Gly Gln Gln Pro Ser Leu Ala Asn Ser Val Arg Trp Leu Gln Thr
20 25 30

Pro Ser Ser Ser Asn Thr Asp Leu Tyr Ser Glu Met Lys Glu Leu Val
35 40 45

Pro Glu Tyr Gln Glu Arg Val Lys Lys Leu Lys Lys Asp His Gly Ser
50 55 60

Val Glu Leu Gly Lys Ile Thr Ala Asp Met Val Leu Gly Gly Met Arg
65 70 75 80

Gly Met Thr Ala Leu Val Trp Leu Gly Ser Ala Val Asp Pro Asp Glu
85 90 95

Gly Ile Arg Phe Arg Gly Met Thr Ile Pro Asp Cys Gln Lys Thr Leu
100 105 110

Pro Gly Ala Phe Pro Gly Gly Glu Pro Leu Pro Glu Ala Ile Leu Trp
115 120 125

Leu Leu Leu Thr Gly Lys Val Pro Ser Lys Glu Gln Val Asp Ser Leu
130 135 140

Ala His Glu Leu Arg Ser Arg Ala Lys Ile Pro Glu Tyr Ala Tyr Lys
145 150 155 160

Ala Ile Asp Ala Leu Pro Val Ser Ala His Pro Met Thr Gln Phe Ser
165 170 175

Thr Gly Val Met Ala Leu Gln Val Glu Ser Glu Phe Thr Lys Ala Tyr
180 185 190

Glu Ser Gly Ile His Lys Ser Arg Tyr Trp Glu Pro Thr Tyr Glu Asp
 195 200 205
 Ser Leu Asn Leu Ile Ala Arg Leu Pro Gly Ile Ala Ala Tyr Ile Tyr
 210 215 220
 Arg Arg Ile Tyr Lys Asp Gly Lys Ile Ile Pro Leu Asp Asp Ser Leu
 225 230 235 240
 Asp Tyr Gly Ala Asn Tyr Ala His Met Leu Gly Phe Asp Asp Pro Glu
 245 250 255
 Thr Leu Glu Phe Met Arg Leu Tyr Ile Ser Ile His Ser Asp His Glu
 260 265 270
 Gly Asn Val Ser Ser His Thr Ala His Leu Val Ala Ser Ser Leu Ser
 275 280 285
 Asp Pro Tyr Leu Ala Phe Ala Ala Ala Leu Asn Gly Leu Ala Gly Pro
 290 295 300
 Leu His Gly Leu Ala Asn Gln Glu Val Leu Arg Trp Ile Arg Asn Ile
 305 310 315 320
 Val Lys Glu Phe Gly Thr Pro Asn Ile Ser Thr Glu Gln Leu Ser Asp
 325 330 335
 Tyr Ile His Lys Thr Leu Asn Ser Gly Gln Val Val Pro Gly Tyr Gly
 340 345 350
 His Gly Val Leu Arg Asn Thr Asp Pro Arg Tyr Thr Cys Gln Arg Glu
 355 360 365
 Phe Ala Leu Lys His Leu Pro Asn Asp Pro
 370 375

<210> 329
 <211> 692
 <212> DNA
 <213> Trifolium repens

<220>
 <221> misc_feature
 <222> (2)..(4)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (6)..(6)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (8)..(8)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (33)..(33)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (692)..(692)

<223> n is a, c, g, or t

<400> 329

gnnncncnac cattacgtta attacatttt ctncctttcgc cttgtttcttt ctctttctcaa 60

tataaagacc aattcaattc ccaattcttt tggatccgaa atcattcatt ctacgcttct 120

tctctcttct ctgcgtttca aaccctagtt gttttgttga ttgatcttaa tggcgttctt 180

tcgaagcggt tctgcgttt caaaactacg atctcgtgtg ggtcaacaac ctagtcttgc 240

taattcagtt agatggctcc aaactccaag ctccagtaac actgatcttt attctgagat 300

gaaggagcta gttccagagt atcaggaacg tgtaagaag ttgaagaaag accatggaag 360

tggtgaattg ggaaaaatca cagctgatat ggtacttggt ggaatgagag gaatgactgc 420

tttagtgtgg ctaggctcag ctgttgaccc agatgagggga attcgcttta ggggcatgac 480

aattcctgac tgccagaaaa cacttccagg tgcttttcct ggtggggagc ctttgcccga 540

ggctatactg tggcttctat tgaccggaaa ggtaccaagt aaagagcaag tagattcatt 600

agctcacgaa ttgcgaagtc gtgcaaaaat cccagagtat gcttacaagg caattgatgc 660

actgcctgtt tctgctcatc caatgacaca an 692

<210> 330

<211> 588

<212> DNA

<213> Trifolium repens

<220>

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<222> (9)..(9)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (12)..(12)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (588)..(588)

<223> n is a, c, g, or t

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<400> 330
acattcgtna tntttttctc tttcgcttgg ttctttctct tctaataata agaccattca      60
attcccaatt cttttggatc cgaaatcatt cattctacgc ttctttctctc ttctctgcgt      120
ttcaaaccct agttgttttg ttgattgatc ttaatggcgt tctttcgaag cgtttctgcg      180
ctttcaaaac tacgatctcg tgtgggtcaa caacctagtc ttgctaattc agttagatgg      240
ctccaaactc caagctccag taacactgat ctttattctg agatgaagga gctagttcca      300
gagtatcagg aacgtgttaa gaagttgaag aaagaccatg gaagtgttga attgggaaaa      360
atcacagctg atatggtact tgggtggaatg agaggaatga ctgctttagt gtggctaggc      420
tcagctgttg acccagatga gggaattcgc tttaggggca tgacaattcc tgactgccag      480
aaaacacttc caggtgcttt tcctggtggg gagcctttgc ccgaggctat actgtggctt      540
ctattgaccg gaaaggtacc aagtaaagag caagtagatt cattagcn                      588

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<210> 331
<211> 681
<212> DNA
<213> Trifolium repens

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<220>
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<222> (6)..(6)
<223> n is a, c, g, or t

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<220>
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<222> (13)..(13)
<223> n is a, c, g, or t

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<220>
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<222> (17)..(17)
<223> n is a, c, g, or t

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<220>
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<222> (26)..(26)
<223> n is a, c, g, or t

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<220>
<221> misc_feature
<222> (32)..(32)
<223> n is a, c, g, or t

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<220>
<221> misc_feature
<222> (35)..(35)
<223> n is a, c, g, or t

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<220>
<221> misc_feature
<222> (38)..(38)
<223> n is a, c, g, or t

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<220>

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<222> (45)..(45)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (681)..(681)
<223> n is a, c, g, or t

<400> 331
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aacccctagtt gttttgttga ttgatctaaa tggcgttctt tcgaagcggt tctgcgcttt      120
caaaactacg atctcgtgtg ggtcaacaac ctagtctcgc taattcagtt agatggctcc      180
aaactccaag ctccagtaac actgatcttt attctgagat gaaggagcta gttccagagt      240
atcaggaacg tgtaagaag ttgaagaaag atcatggaag tgttgaattg ggaaaagtca      300
cagctgatat ggtacttggg ggaatgagag gaatgacagc tttagtgtgg ctaggctcag      360
ctgttgaccc agatgagggg attcgcttta ggggcacgac aattcctgac tgccagaaaa      420
cacttccagg tgcttttctt ggtgggggagc ctttgccga ggctatactg tggctgccat      480
tgaccggaaa ggtaccaagt aaagagcaag tagattcatt agctcacgaa ttgcgaagtc      540
gtgcaaaaat cccagagtat gcttacaagg caattgatgc actgcctgtt tctgctcatc      600
caatgacaca atttagtact ggtgtaatgg ccctccaggt ggagagtgag ttacaaaagg      660
catatgagag tgggatacat n                                                    681

```

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<210> 332
<211> 456
<212> DNA
<213> Trifolium repens

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<220>
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<222> (3)..(3)
<223> n is a, c, g, or t

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<220>
<221> misc_feature
<222> (12)..(13)
<223> n is a, c, g, or t

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<220>
<221> misc_feature
<222> (29)..(29)
<223> n is a, c, g, or t

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<220>
<221> misc_feature
<222> (42)..(42)
<223> n is a, c, g, or t

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<220>
<221> misc_feature
<222> (339)..(339)

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<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (405)..(405)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (417)..(417)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (423)..(423)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (426)..(426)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (441)..(441)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (444)..(444)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (455)..(456)

<223> n is a, c, g, or t

<400> 332

gtgccgaaa tnnctccttt ctacttttna ccctgttggt tngttgattg atctaaatgg 60

cgctctttcg aagcgtttct gcgctttcaa aactacgatt tcgtgtgggt caacaaccta 120

gtcttgctaa ttcagttaga tggctccaaa ctccaagctc cagtaacact gatctttatt 180

ctgagatgaa ggagctagtt ccagagtatc aggaacgtgt taagaagttg aagaaagacc 240

atggaagtgt tgaattggga aaaatcacag ctgatattgt acttggtgga atgagaggaa 300

tgactgcttt agtgtggcta ggctcagctg ttgaccana tgagggaatt cgcttttaggg 360

gcatgacaat tcctgactgc cacaaaacac ttgcaggtgc ttttntctggc ggggagnctt 420

tgncnaggc tatactgcgg nttntattga ccggnn 456

<210> 333

<211> 601

<212> DNA

<213> *Trifolium repens*

<220>

<221> misc_feature

<222> (2)..(2)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (601)..(601)

<223> n is a, c, g, or t

<400> 333

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gnggaaaaat acagctgata tgggtacttgg tggaatgaga ggaatgactg ctttagtggtg      60
gctagggtca gctgttgacc cagatgaggg aattcgcttt aggggcatga caattcctga      120
ctgccagaaa acatttccag gtgctcttcc tgggtggggag cctttgcccg aggctatact      180
gtggcttcta ttgaccggaa aggtaccaag taaagagcaa gtagattcat tagctcacga      240
attgcgaagt cgtgcaaaaa tcccagagta tgcttacaag gcaattgatg cactgcctgt      300
ttctgctcat ccaatgacac aatttagtac tgggtgtaatg gccctccagg tggagagtga      360
gtttacaaag gcatacgaga gtgggataca taagtcaagg tattgggagc caacttatga      420
ggatagcttg aatttaattg ctcgtttgcc tggaattgct gcctatattt atcgacggat      480
atacaaggat ggaaaaatca taccattgga tgattctttg gattatgggtg caaactatgc      540
tcacatgtta ggatttgatg atccagaaac gctggagttt atgaggctgt atatttctat      600
n                                                                           601
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<210> 334

<211> 581

<212> DNA

<213> *Trifolium repens*

<220>

<221> misc_feature

<222> (2)..(2)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (33)..(33)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (581)..(581)

<223> n is a, c, g, or t

<400> 334

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tttaggggca tgacaattcc tgactgccag aaacacttcc aggtgctttt cctggtgggg      120
agcctttgcc cgaggctata ctgtggcttc tattgaccgg aaaggtacca agtaaagagc      180
aagtagattc attagctcac gaattgcgaa gtcgtgcaaa aatcccagag tatgcttaca      240
aggcaattga tgcactgcct gtttctgctc atccaatgac acaatttagt actggtgtaa      300
tggccctcca ggtggagagt gagtttaca aggcatagca gagtgggata cataagtcaa      360
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ggtattggga gccaaacttat gaggatagct tgaatttaat tgctcgtttg cctggaattg	420
ctgcctatat ttatcgacgg atatacaagg atggaaaaat catacattg gatgattctt	480
tggattatgg tgcaaactat gctcacatgt taggatttga tgatccagaa acgctggagt	540
ttatgaggct gtatatttct atccatagtg atcatgaagg n	581

<210> 335
 <211> 559
 <212> DNA
 <213> Trifolium repens

<220>
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 <222> (2)..(2)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (14)..(14)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (16)..(16)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (559)..(559)
 <223> n is a, c, g, or t

<400> 335	
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gctcgtttgc ctggaattgc tgcctatatt tatcgacgga tatacaagga tggaaaaatc	120
atacatttgg atgattcttt ggattatggt gcaaactatg ctcacatgtt aggatttgat	180
gatccagaaa cgctggagtt tatgaggctg tatatttcta tccatagtga tcatgaaggt	240
ggcaacgtta gttctcacac agctcaccta gttgctagtt cactatcaga tccttatctt	300
gcattcgag ctgctctgaa tggtttagct ggcccactgc atggtttagc caatcaggaa	360
gttctacgat ggatcagaaa catagttaag gagtttgaa ctccaaacat aagtacagaa	420
caattgagcg actacattca taaaacattg aacagtggcc aggttggtgcc tggatatgga	480
catggagttt tgcgcaatac agaccaaga tacacttgcc agaggaggtt tgcattgaag	540
catttgccta atgatccan	559

<210> 336
 <211> 1244
 <212> DNA
 <213> Trifolium repens

<220>
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 <222> (2)..(2)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (7)..(7)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (124)..(124)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (1243)..(1244)
 <223> n is a, c, g, or t

<400> 336
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 attactaatt actagtacta attagtaata ccgatccctt tttctcgaac ccattcattc 120
 aagnagaaga agggaaaaca aaatccacac aaacaaacat cttacaacaa tgtcaacgac 180
 aactactaca accgacgaat ccaagctgca cgacgctgca cggaaccgtt tggccaccct 240
 ctacgctcac ttgcttcctt cctccacaac ctccgccgcg ctctccatc ctattcacct 300
 ttcttcttcc tccgggatct cccaccgctc taatgtcaaa ggaacactca ccgttggtga 360
 tgaacgtacc gggaagaagt ataccattga ggtctctcct gatggcaccg ttaaagccaa 420
 tgatttcaag aagatatcaa ctgggaagaa tgataagga ctcaaacttt atgacacctg 480
 atatttaaac actgctcctg tgcgatcaac aatttcttat attgatggtg atgaggaat 540
 ccttagatat agaggatacc ccattgagga gttggccgag aaaagcacct ttccggaagt 600
 ggcatatctc atattgtatg gaaatttgcc ttctgcaaat cagttacaag aatgggaatt 660
 tgctatatct cagcattcag ccttacctca aggagttttg gatctcatc aatcaatgcc 720
 tcaagatgca catcctatgg gcgtcctagt gaatgcaata agcgctctgt ctgtttttca 780
 tcctgacgca aatcctgctc tcagaggtct tgacatctac aactcaaagc aagtgagaga 840
 caaacaata gcacggatta ttggaaagat aacaacaatt gctgctgcaa ttaatcttag 900
 aatggcagga aggccacctg tgcttccatc caacaaacta tcttacacag agaacttcct 960
 atacatgctt gattctctag gcaatcggtc atataaaccc aaccctcagc taactcgtgc 1020
 actagacatc atcttcatcc tgcattgaga acatgaaatg aattgctcta catctgctgt 1080
 acgacacctt gcatcaagcg gcgtcgatgt atacactgct attgctggag gtgttgagac 1140
 tctgtatgga cctcttcatt gtggagctaa tgaggcggtc cttaaaatgc tgagtgaat 1200
 tggaagtgtc gataacattc cagagttcat tgaaggtgtt aann 1244

<210> 337
 <211> 358
 <212> PRT
 <213> Trifolium repens

<220>
 <221> misc_feature
 <222> (358)..(358)
 <223> Xaa can be any naturally occurring amino acid
 <400> 337

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Met Ser Thr Thr Thr Thr Thr Thr Asp Glu Ser Lys Leu His Asp Ala
1      5      10      15

Ala Arg Asn Arg Leu Ala Thr Leu Ser Ala His Leu Leu Pro Ser Ser
20     25     30

Thr Thr Ser Ala Ala Leu Leu His Pro Ile His Leu Ser Ser Ser Ser
35     40     45

Gly Ile Ser Pro Pro Ser Asn Val Lys Gly Thr Leu Thr Val Val Asp
50     55     60

Glu Arg Thr Gly Lys Lys Tyr Thr Ile Glu Val Ser Pro Asp Gly Thr
65     70     75     80

Val Lys Ala Asn Asp Phe Lys Lys Ile Ser Thr Gly Lys Asn Asp Lys
85     90     95

Gly Leu Lys Leu Tyr Asp Pro Gly Tyr Leu Asn Thr Ala Pro Val Arg
100    105    110

Ser Thr Ile Ser Tyr Ile Asp Gly Asp Glu Gly Ile Leu Arg Tyr Arg
115    120    125

Gly Tyr Pro Ile Glu Glu Leu Ala Glu Lys Ser Thr Phe Pro Glu Val
130    135    140

Ala Tyr Leu Ile Leu Tyr Gly Asn Leu Pro Ser Ala Asn Gln Leu Gln
145    150    155    160

Glu Trp Glu Phe Ala Ile Ser Gln His Ser Ala Leu Pro Gln Gly Val
165    170    175

Leu Asp Leu Ile Gln Ser Met Pro Gln Asp Ala His Pro Met Gly Val
180    185    190

Leu Val Asn Ala Ile Ser Ala Leu Ser Val Phe His Pro Asp Ala Asn
195    200    205

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Pro Ala Leu Arg Gly Leu Asp Ile Tyr Asn Ser Lys Gln Val Arg Asp
210 215 220

Lys Gln Ile Ala Arg Ile Ile Gly Lys Ile Thr Thr Ile Ala Ala Ala
225 230 235 240

Ile Asn Leu Arg Met Ala Gly Arg Pro Pro Val Leu Pro Ser Asn Lys
245 250 255

Leu Ser Tyr Thr Glu Asn Phe Leu Tyr Met Leu Asp Ser Leu Gly Asn
260 265 270

Arg Ser Tyr Lys Pro Asn Pro Gln Leu Thr Arg Ala Leu Asp Ile Ile
275 280 285

Phe Ile Leu His Ala Glu His Glu Met Asn Cys Ser Thr Ser Ala Val
290 295 300

Arg His Leu Ala Ser Ser Gly Val Asp Val Tyr Thr Ala Ile Ala Gly
305 310 315 320

Gly Val Gly Ala Leu Tyr Gly Pro Leu His Gly Gly Ala Asn Glu Ala
325 330 335

Val Leu Lys Met Leu Ser Glu Ile Gly Ser Val Asp Asn Ile Pro Glu
340 345 350

Phe Ile Glu Gly Val Xaa
355

<210> 338
<211> 609
<212> DNA
<213> Trifolium repens

<220>
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<222> (2)..(2)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (7)..(7)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (609)..(609)
<223> n is a, c, g, or t

<400> 338
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attactaatt actagtacta attagtaata ccgatccctt tttctcgaac ccattcattc	120
aattcaaaga aggaaaaaca aaatcacaca aacaaacatc ttacaacaat gtcaacgaca	180
actactacaa ccgacgaatc caagctgcac gacgctgcac ggaaccgttt ggctaccctc	240
tcagctcact tgcttccttc ctccacaaac tccgctgcgc ttctccatcc tatccacctt	300
tcttcttcct ctgggatctc cccaccgtct aatgtcaaag gaacactcac cgttgttgat	360
gaacgtaccg ggaagaagta taccattgag gtctctcctg atggcaccgt taaagccaat	420
gatttcaaga agatatcaac tgggaagaat gataaggggc tcaaacttta tgatcctgga	480
tatttaaaca ctgctcctgt gcgatcaaca atttcttata ttgatggtga tgagggaatc	540
cttagatata gaggataccc cattgaagag ttggccgaga aaagcacctt tccggaagtg	600
gcatatctn	609

<210> 339
 <211> 589
 <212> DNA
 <213> Trifolium repens

<220>
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 <222> (2)..(2)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (5)..(5)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (16)..(16)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (589)..(589)
 <223> n is a, c, g, or t

<400> 339	
gnagnagaag gaaacncaaa tccacaaaca aaactcttac aacaatgtca accacaacta	60
ctacaaccga cgaatccaag ctgcacgacg ctgcacggaa ccgtttggcc accctctcag	120
ctcacttgct tccttcctcc acaacctccg ccgcgctcct ccctcctatt cacctttccg	180
cttcctccgg gatctcccca ccgtctaata tcaaaggaac actcaccgtt gttgatgaac	240
gtaccgggaa gaagtataac attgaggtct cacctgatgg caccgttaaa gccaatgatt	300
tcaagaagat atcaactggg aagaatgata agggactcaa actttatgat cctggatatt	360
taaacactgc tcctgtgcga tcaacaattt cttatattga tgggtgatgag ggaatcctta	420
gatatagagg atacccatt gaggagtgg ccgagaaaag cacctttccg gaagtggcat	480

atctcatatt gtatggaaat ttgccttctg caaatcagtt acaagaatgg gaatttgcta	540
tatctcagca ttcagcctta cctcaaggag ttttggatct catacaatn	589

<210> 340
 <211> 594
 <212> DNA
 <213> Trifolium repens

<220>
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 <222> (2)..(3)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (5)..(5)
 <223> n is a, c, g, or t

<220>
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 <222> (23)..(23)
 <223> n is a, c, g, or t

<220>
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 <222> (593)..(594)
 <223> n is a, c, g, or t

<400> 340	
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ctactacaac cgacgaatcc aagctgcacg acgctgcacg gaaccgtttg gccaccctct	120
cagctcactt gcttccttcc tccacaacct ccgccgcgct cctccatcct attcaccttt	180
ccgcttcctc cgggatctcc ccaccgtcta atgtcaaagg aacactcacc gttgttgatg	240
aacgtaccgg gaagaagtat aacattgagg tctcacctga tggcaccggt aaagccaatg	300
atttcaagaa gatatcaact gggaagaatg ataagggact caaactttat gatcctggat	360
atttaaacac tgctcctgtg cgatcaacaa tttcttatat tgatggtgat gagggaatcc	420
ttagatatag aggatacccc attgaggagt tggccgagaa aagcaccttt ccggaagtgg	480
catatctcat attgtatgga aatttgcctt ctgcaaatca gttacaagaa tgggaatttg	540
ctatatctca gcattcagcc ttacctcaag gagttttgga tctcatacaa tcnn	594

<210> 341
 <211> 570
 <212> DNA
 <213> Trifolium repens

<220>
 <221> misc_feature
 <222> (2)..(2)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (20)..(20)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (570)..(570)
 <223> n is a, c, g, or t

<400> 341
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 accgacgaat ccaagctgca cgacgctgca cggaaccgtt tagccaccct ctgagctcac 120
 ttgcttcctt cctccacaac ctccgccgcg ctctccatc ctattcacct ttcttcttcc 180
 tccgggatct cccaccgctc taatgtcaaa ggaacactca ccgttggtga tgaacgtacc 240
 gggaagaagt ataccattga ggtctctcct gatggcaccg ttaaagccaa tgatttcaag 300
 aagatatcga ctgggaagaa tgataaggga ctcaaacttt atgacctggt atattttaaac 360
 actgctcctg tgcgatcaac aatttcttat attgatggtg atgagggaaat ccttagatat 420
 agaggatacc ccattgagga gttggccgag aaaagcacct ttccggaagt ggcatatctc 480
 atattgtatg gaaatttgcc ttctgcaaat cagttacaag aatgggaatt tgctatatct 540
 cagcattcag ccttacctca aggagttttn 570

<210> 342
 <211> 592
 <212> DNA
 <213> Trifolium repens

<220>
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 <222> (2)..(2)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (17)..(17)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (591)..(592)
 <223> n is a, c, g, or t

<400> 342
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 cgaatccaag ctgcacgacg ctgcacggaa ccgtttggct accctctcag ctacttgct 120
 tccttcctcc acaaaactccg ctgcgcttct ccacacctatc cacctttctt cttcctctgg 180
 gatctcccca ccgtctaattg tcaaaggaac actcacggtt gttgatgaac gtaccgggaa 240
 gaagtatacc attgagggtct ctctgatgg caccgttaaa gccaatgatt tcaagaagat 300

atcaactggg aagaatgata aggggctcaa actttatgat cctggatatt taaacactgc	360
tcctgtgcga tcaacaattt cttatattga tggatgatgag ggaatcctta gatatagagg	420
atacccatt gaagagttgg ccgagaaaag cacctttccg gaagtggcat atctcatatt	480
gtatggaaat ttgccttctg caaatcagtt acaagaatgg gaatttgcta tatctcagca	540
ttcagcctta cctcaaggag ttttgatct catacaatca atgcctcaag nn	592

<210> 343
 <211> 579
 <212> DNA
 <213> *Trifolium repens*

<220>
 <221> misc_feature
 <222> (12)..(12)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (579)..(579)
 <223> n is a, c, g, or t

<400> 343	
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aatgtatgga agtttaccta ctgaaagtaa gttagctgaa tggaatttcg ctatatctca	120
gcattcagct gttccagaag gagttttgga tatcatacaa tcaatgcctc atgatgcaca	180
tcctatgggt gtcctagtga atgcaataag cgctctttct gtttttcatc ctgacgcaa	240
tcctgctctt agaggtcttg atatttacga ctcaaaggaa gtgagagaca aacaaatagc	300
acggattatt ggaaagatta taacaattgc tgctgcagtt tatcttagaa tggcaggaag	360
gccacctgtg cttccatcca accaactatc ttacactgag aacttcctat acatgcttga	420
ttctttaggc aatcggtcat ataaacccaa cctcagcta actcgtgcac tagacattat	480
cttcacctg catgcagaac atgaaatgaa ttgctctaca tctgctgtcc gacaccttgc	540
atcaagcggc gttgatgtat atactgctat tgctggggn	579

<210> 344
 <211> 594
 <212> DNA
 <213> *Trifolium repens*

<220>
 <221> misc_feature
 <222> (593)..(594)
 <223> n is a, c, g, or t

<400> 344	
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aatcaatgcc tcaagatgca catcctatgg gcgtgcttgt taatgctcta agtgctttgt	120
ctgtttttca tcctgatgca aatcctgctc tcagaggtct tgacatctac aactcaaagc	180
aagtgagaga caaacaata gtgcggatta ttggaaagat aacaacaatt gctgctgcga	240
ttaatcttag attgggagga aggccacctg ttcttccatc caacaaactt tcttacacag	300
agaacttcct ttacatgctt gattctcttg gcaatcggtc atataaacct aatcctcgtc	360
taactcgtgc actggacatc atcttcatcc ttcatgcaga acatgaaatg aattgctcta	420
catctgctgt acgccacctt gcatcaagtg gtgtcgaagt atacactgct attgctggag	480
gtgttgagc tctgtatgga cctcttcatg gtggagctaa tgaggcggtc cttaaaatgc	540
tgagtgaaat tggaagtgtc gataacattc cagagttcat tgaaggtgtt aann	594

<210> 345
 <211> 1738
 <212> DNA
 <213> *Trifolium repens*

<400> 345	
ggccgcgaat tcactagtga ttaagcagtg gtaacaacgc agagtacgcg ggggtaggcg	60
gagatttcaa acccaatttt cctcttaaatt ctctcccaac ttctccttcc aattcccatt	120
accattcatt cccagagggtc gagatggcag catcagcagc agctactttt actattggaa	180
ctgccccaaac agggaggcca cttcctcaat caaacctttt tggtttgaaa gtcaattccc	240
aggttaattt taagaccttc tctggtctca aggccatgtc atctctaaga tgcgagtctg	300
aatcatcttt ctttggcaac gaaactagtg ctgctctgcg tgcaactttt gcacccaaag	360
ctcaaaaagga aaaccaaacc atcaaccgca atttgcattc tcaggcatcc tacaaagtgg	420
cggttcttgg tgctgcagga ggaattggc agccactggc acttctcatt aagatgtcgc	480
ctttggtttc cgacctgcat ctttatgata tcgcgaatgt taaggaggtt gctgctgata	540
tcagtcattg caacactcct tcaaagggtt tggatttcac aggtgcttct gaggttggaa	600
attgtttgaa aggtgtggat gtagttgta tacctgctgg tgttcccaga aaacctggca	660
tgactcgtga tgaccttttc aacatcaatg ccggtatagt cagggacttg gtcaccgctg	720
ttgcagataa ttgccctggg gcttttattc atgttatcag taaccgggtg aactctacag	780
ttcctattgc tgctgaaatt ctgaaacaaa aggggtgtta tgatcctaaa aagctctttg	840
gtgttactac acttgatgtt gtgagggcaa acacatttgt tgctcagaaa aagaacctga	900
ggctgattga tgtagatgtt cctgttggtg gtggtcatgc cgggattacc attcttcctc	960
ttctgtcaaa gacaagacct tcagcaaatt tcaactgatga agaaattgag gcgctaactg	1020
tcaggattca aaatgctgga actgaagttg ttgaggccaa ggctgggtgca gggctctgcta	1080
ctttgtcaat ggcctatgca gcagctagat ttgttgaatc atctcttcgt gcgcttgacg	1140
gtgacgctga tgtgtatgag tgctcatttg tacagtcaga tctgactgac cttccgtttt	1200

ttgcttcaag ggtgaagatt ggtaggaaaag gagtcgaggc tttgattcca actgatctcc 1260
 aagggttgag tgagtatgag cagaaggctt tggaagcact taaaccagaa cttaaggcta 1320
 gcattgaaaa gggatttgct tttgctcaaa agcaaactgt ttctgcttaa cttattttgt 1380
 gaaagcatat attctatact ctctagcgtc catgcgagag aatgtcaatg ggtgatttct 1440
 tgggttatgg atttatttga gcatgaatac tacttagagg acttagattg cagatttatg 1500
 tagcatcatt tactgcttcc agaacttatg atttaaattt tccatagtat catttctact 1560
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 ttttgatcag aaatctcaat agattgttac tatcatgtac tactagaatt ggaaaaatgt 1680
 aaacgttgca ttttgaataa tactgccttt ggactagttt gtgtttcgaa aaaaaaaa 1738

<210> 346
 <211> 408
 <212> PRT
 <213> *Trifolium repens*

<400> 346

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20 25 30

Gln Val Asn Phe Lys Thr Phe Ser Gly Leu Lys Ala Met Ser Ser Leu
35 40 45

Arg Cys Glu Ser Glu Ser Ser Phe Phe Gly Asn Glu Thr Ser Ala Ala
50 55 60

Leu Arg Ala Thr Phe Ala Pro Lys Ala Gln Lys Glu Asn Gln Asn Ile
65 70 75 80

Asn Arg Asn Leu His Pro Gln Ala Ser Tyr Lys Val Ala Val Leu Gly
85 90 95

Ala Ala Gly Gly Ile Gly Gln Pro Leu Ala Leu Leu Ile Lys Met Ser
100 105 110

Pro Leu Val Ser Asp Leu His Leu Tyr Asp Ile Ala Asn Val Lys Gly
115 120 125

Val Ala Ala Asp Ile Ser His Cys Asn Thr Pro Ser Lys Val Leu Asp
130 135 140

Phe Thr Gly Ala Ser Glu Leu Ala Asn Cys Leu Lys Gly Val Asp Val
Page 318

145 150 155 160
 Val Val Ile Pro Ala Gly Val Pro Arg Lys Pro Gly Met Thr Arg Asp
 165 170 175
 Asp Leu Phe Asn Ile Asn Ala Gly Ile Val Arg Asp Leu Val Thr Ala
 180 185 190
 Val Ala Asp Asn Cys Pro Gly Ala Phe Ile His Val Ile Ser Asn Pro
 195 200 205
 Val Asn Ser Thr Val Pro Ile Ala Ala Glu Ile Leu Lys Gln Lys Gly
 210 215 220
 Val Tyr Asp Pro Lys Lys Leu Phe Gly Val Thr Thr Leu Asp Val Val
 225 230 235 240
 Arg Ala Asn Thr Phe Val Ala Gln Lys Lys Asn Leu Arg Leu Ile Asp
 245 250 255
 Val Asp Val Pro Val Val Gly Gly His Ala Gly Ile Thr Ile Leu Pro
 260 265 270
 Leu Leu Ser Lys Thr Arg Pro Ser Ala Asn Phe Thr Asp Glu Glu Ile
 275 280 285
 Glu Ala Leu Thr Val Arg Ile Gln Asn Ala Gly Thr Glu Val Val Glu
 290 295 300
 Ala Lys Ala Gly Ala Gly Ser Ala Thr Leu Ser Met Ala Tyr Ala Ala
 305 310 315 320
 Ala Arg Phe Val Glu Ser Ser Leu Arg Ala Leu Asp Gly Asp Ala Asp
 325 330 335
 Val Tyr Glu Cys Ser Phe Val Gln Ser Asp Leu Thr Asp Leu Pro Phe
 340 345 350
 Phe Ala Ser Arg Val Lys Ile Gly Arg Lys Gly Val Glu Ala Leu Ile
 355 360 365
 Pro Thr Asp Leu Gln Gly Leu Ser Glu Tyr Glu Gln Lys Ala Leu Glu
 370 375 380
 Ala Leu Lys Pro Glu Leu Lys Ala Ser Ile Glu Lys Gly Ile Ala Phe
 385 390 395 400
 Ala Gln Lys Gln Thr Val Ser Ala

<210> 347
 <211> 3372
 <212> DNA
 <213> *Trifolium repens*

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 acacgggtga gaaggagtga attgctccaa tggcaacaaa caaatggaa aaaatggcat 180
 caattgatgc acagcttaga caattagtag cagcaaaagt tagtgaagat gataaactta 240
 ttgagtatga tgctttgttg ttggatcggg ttcttgatat ccttcaggat ttacatggag 300
 aggatctgaa agattctggt caagaagtgt atgaactttc tgcggagtat gaaagaaagc 360
 atgaccta gaaacttgaa gagctcggaa atttgataac aagtttagat gcaggagatt 420
 caattgttgt tgctaagtcc ttttcgcaca tgcttaactt ggccaactta gctgaagagg 480
 ttcagattgc tcatcgctga aggaacaagt tgaagaaagg agattttagg gatgagagca 540
 atgcaactac cgaatcagac atcgaagaaa ctcttaagag acttgtgttt aatatgaaga 600
 aatctcctca ggaagttttt gatgcgttga agaaccagac cgttgatttg gttcttactg 660
 ctcaccta tcatcggtt cgtaggtcgt tgcttcaaaa gcatggaagg gtaaggaact 720
 gtttatctca attgtatgct aaagacatca ctctgatga taagcaagag ctcgacgaag 780
 ctctccagag ggagattcaa gctgcattcc gtaccgatga aatcaagagg acacctcaa 840
 caccacaaga tgagatgaga gcagggatga gttacttcca cgaaacaatt tggaagggtg 900
 tccctaaatt tcttcgccgt gttgatactg cgttgaagaa catagggatt aacgaacgtg 960
 ttccctataa tgctcctctt attcagtttt ctctatggat ggggggtgat cgtgatggta 1020
 atccgagagt gactcctgaa gtaacgagag atgtttgctt actagctaga atgatggctg 1080
 caaatttgta ttattcccag attgaagatc ttatgtttga actgtctatg tggcgttgca 1140
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 caaaacacta catagagttt tggaaaaaaa ttcctttgaa tgaaccgtac cgtgttatac 1260
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 ctcttgaaat atgctacaga tcaactctgtg cttgtggtga tcgtgcgggt gccgatggaa 1440
 gccttcttga tttcttgagg caagtttcca cttttggact gtcactggta agacttgata 1500
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 ttggatccta ccaagattgg tctgaagaaa aacgacagga atggcttttg tctgagttgg 1620
 ttggcaaaag gccgcttttt ggacctgatc tacctcaaac cgatgaaatt agagaagttt 1680

tagagacatt	tcatgtcata	gcagaacttc	catcagacaa	ctttggagcc	tatatcattt	1740
cgatggcaac	tgccccgtct	gatgtgctgg	cggttgaact	tcttcaacgt	gaatgcaaaa	1800
tcaagaatcc	gttaagagtt	gttccattgt	ttgagaaact	tgctgatctc	gagtctgctc	1860
ctgctgcttt	ggctcggttg	ttttcgatag	actggtacat	aaaccgtatc	gatgggaagc	1920
aagaagttat	gattggatat	tctgattcag	gtaaagatgc	tggaagggtt	tctgccgcat	1980
ggcagctata	taaggctcag	gaggacctca	taaatgttgc	tcagaaatac	ggtgttaagc	2040
taacaatgtt	ccatggctgt	ggtggaactg	ttggaagagg	aggtggacct	actcatcttg	2100
ctatcttgtc	tcaaccacca	gacacaattc	acggatctct	tcgtgtgacg	gttcaagggtg	2160
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caacacacaa	ggaagttcct	gaaggagatc	cctacttgaa	acaaagactc	agactccgtg	2820
attcttacat	tacaaccctt	aacgttttcc	aagcatacac	attgaaacgg	atccgtgatc	2880
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cggctgatga	acttgtaaca	ttgaatccaa	caagtgaata	tgctcctggt	ttggaagaca	3000
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tgattttttt	cacttgattt	tgtttctttt	atgttaagtg	tgtgctaaga	tatcataaat	3120
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cctttttcat	aagaaactca	catcagggtt	tgttgatggt	tttccttact	ttgttaccat	3240
acaaacgagt	taatgcaatt	gatgttatgt	ttcaatgcat	agattttatc	tcctttcttc	3300
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<210> 348
 <211> 967
 <212> PRT
 <213> Trifolium repens

<400> 348

Met Ala Thr Asn Lys Met Glu Lys Met Ala Ser Ile Asp Ala Gln Leu
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Arg Gln Leu Val Pro Ala Lys Val Ser Glu Asp Asp Lys Leu Ile Glu
20 25 30

Tyr Asp Ala Leu Leu Leu Asp Arg Phe Leu Asp Ile Leu Gln Asp Leu
35 40 45

His Gly Glu Asp Leu Lys Asp Ser Val Gln Glu Val Tyr Glu Leu Ser
50 55 60

Ala Glu Tyr Glu Arg Lys His Asp Pro Lys Lys Leu Glu Glu Leu Gly
65 70 75 80

Asn Leu Ile Thr Ser Leu Asp Ala Gly Asp Ser Ile Val Val Ala Lys
85 90 95

Ser Phe Ser His Met Leu Asn Leu Ala Asn Leu Ala Glu Glu Val Gln
100 105 110

Ile Ala His Arg Arg Arg Asn Lys Leu Lys Lys Gly Asp Phe Arg Asp
115 120 125

Glu Ser Asn Ala Thr Thr Glu Ser Asp Ile Glu Glu Thr Leu Lys Arg
130 135 140

Leu Val Phe Asn Met Lys Lys Ser Pro Gln Glu Val Phe Asp Ala Leu
145 150 155 160

Lys Asn Gln Thr Val Asp Leu Val Leu Thr Ala His Pro Thr Gln Ser
165 170 175

Val Arg Arg Ser Leu Leu Gln Lys His Gly Arg Val Arg Asn Cys Leu
180 185 190

Ser Gln Leu Tyr Ala Lys Asp Ile Thr Pro Asp Asp Lys Gln Glu Leu
195 200 205

Asp Glu Ala Leu Gln Arg Glu Ile Gln Ala Ala Phe Arg Thr Asp Glu
210 215 220

Ile Lys Arg Thr Pro Pro Thr Pro Gln Asp Glu Met Arg Ala Gly Met
225 230 235 240

Ser Tyr Phe His Glu Thr Ile Trp Lys Gly Val Pro Lys Phe Leu Arg
Page 322

245										250										255										
Arg	Val	Asp	Thr	Ala	Leu	Lys	Asn	Ile	Gly	Ile	Asn	Glu	Arg	Val	Pro															
			260					265					270																	
Tyr	Asn	Ala	Pro	Leu	Ile	Gln	Phe	Ser	Ser	Trp	Met	Gly	Gly	Asp	Arg															
		275					280					285																		
Asp	Gly	Asn	Pro	Arg	Val	Thr	Pro	Glu	Val	Thr	Arg	Asp	Val	Cys	Leu															
	290					295					300																			
Leu	Ala	Arg	Met	Met	Ala	Ala	Asn	Leu	Tyr	Tyr	Ser	Gln	Ile	Glu	Asp															
	305				310					315					320															
Leu	Met	Phe	Glu	Leu	Ser	Met	Trp	Arg	Cys	Asn	Asp	Glu	Leu	Arg	Asp															
				325					330					335																
Arg	Ala	Glu	Glu	Leu	His	Arg	Asn	Ser	Lys	Lys	Asp	Glu	Val	Ala	Lys															
			340					345					350																	
His	Tyr	Ile	Glu	Phe	Trp	Lys	Lys	Ile	Pro	Leu	Asn	Glu	Pro	Tyr	Arg															
		355					360					365																		
Val	Ile	Leu	Gly	Asp	Val	Arg	Asp	Lys	Leu	Tyr	Arg	Thr	Arg	Glu	Arg															
	370					375					380																			
Ser	Arg	Tyr	Leu	Leu	Ala	His	Gly	Tyr	Ser	Glu	Ile	Pro	Glu	Glu	Ala															
	385				390					395					400															
Thr	Phe	Thr	Asn	Val	Asp	Glu	Phe	Leu	Glu	Pro	Leu	Glu	Leu	Cys	Tyr															
				405					410					415																
Arg	Ser	Leu	Cys	Ala	Cys	Gly	Asp	Arg	Ala	Val	Ala	Asp	Gly	Ser	Leu															
			420				425						430																	
Leu	Asp	Phe	Leu	Arg	Gln	Val	Ser	Thr	Phe	Gly	Leu	Ser	Leu	Val	Arg															
		435					440					445																		
Leu	Asp	Ile	Arg	Gln	Glu	Ser	Asp	Arg	His	Thr	Asp	Val	Met	Asp	Ala															
	450					455					460																			
Ile	Thr	Lys	His	Leu	Glu	Ile	Gly	Ser	Tyr	Gln	Asp	Trp	Ser	Glu	Glu															
	465				470					475					480															
Lys	Arg	Gln	Glu	Trp	Leu	Leu	Ser	Glu	Leu	Val	Gly	Lys	Arg	Pro	Leu															
				485					490					495																
Phe	Gly	Pro	Asp	Leu	Pro	Gln	Thr	Asp	Glu	Ile	Arg	Glu	Val	Leu	Glu															

500					505					510					
Thr	Phe	His	Val	Ile	Ala	Glu	Leu	Pro	Ser	Asp	Asn	Phe	Gly	Ala	Tyr
		515					520					525			
Ile	Ile	Ser	Met	Ala	Thr	Ala	Pro	Ser	Asp	Val	Leu	Ala	Val	Glu	Leu
	530					535					540				
Leu	Gln	Arg	Glu	Cys	Lys	Ile	Lys	Asn	Pro	Leu	Arg	Val	Val	Pro	Leu
545					550					555					560
Phe	Glu	Lys	Leu	Ala	Asp	Leu	Glu	Ser	Ala	Pro	Ala	Ala	Leu	Ala	Arg
				565					570					575	
Leu	Phe	Ser	Ile	Asp	Trp	Tyr	Ile	Asn	Arg	Ile	Asp	Gly	Lys	Gln	Glu
			580					585					590		
Val	Met	Ile	Gly	Tyr	Ser	Asp	Ser	Gly	Lys	Asp	Ala	Gly	Arg	Phe	Ser
		595					600					605			
Ala	Ala	Trp	Gln	Leu	Tyr	Lys	Ala	Gln	Glu	Asp	Leu	Ile	Asn	Val	Ala
	610					615					620				
Gln	Lys	Tyr	Gly	Val	Lys	Leu	Thr	Met	Phe	His	Gly	Arg	Gly	Gly	Thr
625					630					635					640
Val	Gly	Arg	Gly	Gly	Gly	Pro	Thr	His	Leu	Ala	Ile	Leu	Ser	Gln	Pro
			645						650					655	
Pro	Asp	Thr	Ile	His	Gly	Ser	Leu	Arg	Val	Thr	Val	Gln	Gly	Glu	Val
			660					665					670		
Ile	Glu	Gln	Ser	Phe	Gly	Glu	Glu	His	Leu	Cys	Phe	Arg	Thr	Leu	Gln
		675					680					685			
Arg	Phe	Thr	Ala	Ala	Thr	Leu	Glu	His	Gly	Met	Arg	Pro	Pro	Ser	Ser
	690					695					700				
Pro	Lys	Pro	Glu	Trp	Arg	Glu	Leu	Met	Asp	Gln	Met	Ala	Val	Ile	Ala
705					710					715					720
Thr	Glu	Glu	Tyr	Arg	Ser	Ile	Val	Phe	Lys	Glu	Pro	Arg	Phe	Val	Glu
				725					730					735	
Tyr	Phe	Arg	Leu	Ala	Thr	Pro	Glu	Met	Glu	Tyr	Gly	Arg	Met	Asn	Ile
			740					745					750		
Gly	Ser	Arg	Pro	Ala	Lys	Arg	Arg	Pro	Cys	Gly	Gly	Ile	Glu	Thr	Leu

755 760 765
 Arg Ala Ile Pro Trp Ile Phe Ala Trp Thr Gln Thr Arg Phe His Leu
 770 775 780
 Pro Val Trp Leu Gly Phe Gly Ala Ala Phe Lys Gln Val Ile Ala Lys
 785 790 795 800
 Asp Val Lys Asn Leu His Met Leu Gln Glu Met Tyr Asn Gln Trp Pro
 805 810 815
 Phe Phe Arg Val Thr Ile Asp Leu Val Glu Met Val Phe Ala Lys Gly
 820 825 830
 Asp Pro Gly Ile Ala Ala Leu Asn Asp Arg Leu Leu Val Ser Gln Asp
 835 840 845
 Leu Trp Pro Phe Gly Glu Gln Leu Arg Ser Lys Tyr Glu Glu Thr Lys
 850 855 860
 Lys Leu Leu Leu Gln Val Ala Thr His Lys Glu Val Leu Glu Gly Asp
 865 870 875 880
 Pro Tyr Leu Lys Gln Arg Leu Arg Leu Arg Asp Ser Tyr Ile Thr Thr
 885 890 895
 Leu Asn Val Phe Gln Ala Tyr Thr Leu Lys Arg Ile Arg Asp Pro Asn
 900 905 910
 Tyr Lys Val Glu Val Arg Pro Arg Val Ser Lys Glu Ser Ala Glu Thr
 915 920 925
 Ser Lys Ser Ala Asp Glu Leu Val Thr Leu Asn Pro Thr Ser Glu Tyr
 930 935 940
 Ala Pro Gly Leu Glu Asp Thr Leu Ile Leu Thr Met Lys Gly Ile Ala
 945 950 955 960
 Ala Gly Met Gln Asn Thr Gly
 965

<210> 349
 <211> 2066
 <212> DNA
 <213> Trifolium repens

<400> 349
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caggaacgtg	ttaagaagtt	gaagaaagac	catggaagtg	ttgaattggg	aaaaatcaca	420
gctgatatgg	tacttggtgg	aatgagagga	atgactgctt	tagtgtggct	aggctcagct	480
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tatcttgcac	tcgcagctgc	tctgaatggt	ttagctggcc	cactgcatgg	tttagccaat	1140
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cctcccattc	tgaccaagtt	aggaaagggt	aaaaatccat	ggcctaattgt	tgatgctcat	1440
agtggagtac	tactaaacta	ctatggtcta	actgaagaaa	actattatac	cgttcttttt	1500
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ctttctaaat	aggattgacc	cctttgacaa	aaaatacaaa	ttatcaatat	cactcgtcta	1980
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accactgctt aatcactagt gaattc

2066

<210> 350
<211> 472
<212> PRT
<213> Trifolium repens

<400> 350

Met Ala Phe Phe Arg Ser Val Ser Ala Leu Ser Lys Leu Arg Ser Arg
1 5 10 15

Val Gly Gln Gln Pro Ser Leu Ala Asn Ser Val Arg Trp Leu Gln Thr
20 25 30

Pro Ser Ser Ser Asn Thr Asp Leu Tyr Ser Glu Met Lys Glu Leu Val
35 40 45

Pro Glu Tyr Gln Glu Arg Val Lys Lys Leu Lys Lys Asp His Gly Ser
50 55 60

Val Glu Leu Gly Lys Ile Thr Ala Asp Met Val Leu Gly Gly Met Arg
65 70 75 80

Gly Met Thr Ala Leu Val Trp Leu Gly Ser Ala Val Asp Pro Asp Glu
85 90 95

Gly Ile Arg Phe Arg Gly Met Thr Ile Pro Asp Cys Gln Lys Thr Leu
100 105 110

Pro Gly Ala Phe Pro Gly Gly Glu Pro Leu Pro Glu Ala Ile Leu Trp
115 120 125

Leu Leu Leu Thr Gly Lys Val Pro Ser Lys Glu Gln Val Asp Ser Leu
130 135 140

Ala His Glu Leu Arg Ser Arg Ala Lys Ile Pro Glu Tyr Ala Tyr Lys
145 150 155 160

Ala Ile Asp Ala Leu Pro Val Ser Ala His Pro Met Thr Gln Phe Ser
165 170 175

Thr Gly Val Met Ala Leu Gln Val Glu Ser Glu Phe Thr Lys Ala Tyr
180 185 190

Glu Gly Gly Ile His Lys Ser Arg Tyr Trp Glu Pro Thr Tyr Glu Asp
195 200 205

Ser Leu Asn Leu Ile Ala Arg Leu Pro Gly Ile Ala Ala Tyr Ile Tyr
Page 327

210	215	220
Arg Arg Ile Tyr Lys Asp Gly Lys Ile Ile Pro Leu Asp Asp Ser Leu	225 230 235 240	
Asp Tyr Gly Ala Asn Tyr Ala His Met Leu Gly Phe Asp Asp Pro Glu	245 250 255	
Thr Leu Glu Phe Met Arg Leu Tyr Ile Ser Ile His Ser Asp His Glu	260 265 270	
Gly Gly Asn Val Ser Ser His Thr Ala His Leu Val Ala Ser Ser Leu	275 280 285	
Ser Asp Pro Tyr Leu Ala Phe Ala Ala Ala Leu Asn Gly Leu Ala Gly	290 295 300	
Pro Leu His Gly Leu Ala Asn Gln Glu Val Leu Arg Trp Ile Arg Asn	305 310 315 320	
Ile Val Lys Glu Phe Gly Thr Pro Asn Ile Ser Thr Glu Gln Leu Ser	325 330 335	
Asp Tyr Ile His Lys Thr Leu Asn Ser Gly Gln Val Val Pro Gly Tyr	340 345 350	
Gly His Gly Val Leu Arg Asn Thr Asp Pro Arg Tyr Thr Cys Gln Arg	355 360 365	
Glu Phe Ala Leu Lys His Leu Pro Asn Asp Pro Leu Phe Gln Leu Val	370 375 380	
Ser Lys Ile Lys Glu Val Val Pro Pro Ile Leu Thr Lys Leu Gly Lys	385 390 395 400	
Val Lys Asn Pro Trp Pro Asn Val Asp Ala His Ser Gly Val Leu Leu	405 410 415	
Asn Tyr Tyr Gly Leu Thr Glu Glu Asn Tyr Tyr Thr Val Leu Phe Gly	420 425 430	
Val Ala Arg Ser Ile Gly Val Gly Pro Gln Leu Ile Trp Asp Arg Ala	435 440 445	
Leu Gly Met Pro Leu Glu Arg Pro Lys Ser Val Thr Leu Glu Lys Leu	450 455 460	
Glu Lys Leu Val Gly Ala Ser Ser		

465

470

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 <213> *Trifolium repens*

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 aattcttttg gatccgaat cattcattct acgcttcttc tctcttctct gcgtttcaaa 180
 ccctagtgtg tttgttgatt gatcttaatg gcgttctttc gaagcgtttc tgcgctttca 240
 aaactacgat ctctgtgtgg tcaacaacct agtcttgcta attcagttag atggctccaa 300
 actccaagct ccagtaacac tgatctttat tctgagatga aggagctagt tccagagtat 360
 caggaacgtg ttaagaagtt gaagaaagac catggaagtg ttgaattggg aaaaatcaca 420
 gctgatattg tacttggtgg aatgagagga atgactgctt tagtggtggc aggctcagct 480
 gttgaccag atgagggaa tgcgttttag ggcattgaca ttcctgactg ccagaaaaca 540
 cttccaggtg cttttcctgg tggggagcct ttgcccagg ctatactgtg gcttctattg 600
 accggaaagg taccaagtaa agagcaagta gattcattag ctcacgaatt gcgaagtcgt 660
 gcaaaaatcc cagagtatgc ttacaaggca attgatgcac tgcctgtttc tgctcatcca 720
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 tacgaggggt ggatacataa gtcaagggtat tgggagccaa cttatgagga tagcttgaat 840
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 aaaatcatac cattggatga ttctttggat tatggtgcaa actatgctca catgttagga 960
 tttgatgatc cagaaacgct ggagtttatg aggctgtata tttctatcca tagtgatcat 1020
 gaaggtggca acgttagttc tcacacagct cacctagttg ctagtctact atcagatcct 1080
 tatcttgcac tcgcagctgc tctgaatggg ttagctggcc cactgcatgg tttagccaat 1140
 caggaagttc tacgatggat cagaaacata gttaaggagt ttggaactcc aaacataagt 1200
 acagaacaat tgagcgacta cattcataaa acattgaaca gtggccagggt tgtgcctgga 1260
 tatggacatg gagttttgcg caatacagac ccaagataca cttgccagag ggagtttgca 1320
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 ggtgtcgcga ggagtattgg agttggccct cagctgatat gggaccgtgc tcttggaatg 1560
 ccacttgaaa ggccaaaaag tgtcacactg gagaaacttg agaaactggg cggcgcacgc 1620
 tcctaaaatt gaaagcgcgg ttatctgtgg attactaaaa tacactctgc ggttgtaggt 1680

tgttggtaac tctaaacatt tgggtgcaatt gcaatgagaa atattttgcc caaatccccc 1740
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<210> 352
 <211> 472
 <212> PRT
 <213> *Trifolium repens*

<400> 352

Met Ala Phe Phe Arg Ser Val Ser Ala Leu Ser Lys Leu Arg Ser Arg
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Val Gly Gln Gln Pro Ser Leu Ala Asn Ser Val Arg Trp Leu Gln Thr
 20 25 30

Pro Ser Ser Ser Asn Thr Asp Leu Tyr Ser Glu Met Lys Glu Leu Val
 35 40 45

Pro Glu Tyr Gln Glu Arg Val Lys Lys Leu Lys Lys Asp His Gly Ser
 50 55 60

Val Glu Leu Gly Lys Ile Thr Ala Asp Met Val Leu Gly Gly Met Arg
 65 70 75 80

Gly Met Thr Ala Leu Val Trp Leu Gly Ser Ala Val Asp Pro Asp Glu
 85 90 95

Gly Ile Arg Phe Arg Gly Met Thr Ile Pro Asp Cys Gln Lys Thr Leu
 100 105 110

Pro Gly Ala Phe Pro Gly Gly Glu Pro Leu Pro Glu Ala Ile Leu Trp
 115 120 125

Leu Leu Leu Thr Gly Lys Val Pro Ser Lys Glu Gln Val Asp Ser Leu
 130 135 140

Ala His Glu Leu Arg Ser Arg Ala Lys Ile Pro Glu Tyr Ala Tyr Lys
 145 150 155 160

Ala Ile Asp Ala Leu Pro Val Ser Ala His Pro Met Thr Gln Phe Ser
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165								170					175				
Thr	Gly	Val	Met 180	Ala	Leu	Gln	Val	Glu 185	Ser	Glu	Phe	Thr	Lys 190	Ala	Tyr		
Glu	Gly	Gly 195	Ile	His	Lys	Ser	Arg 200	Tyr	Trp	Glu	Pro	Thr 205	Tyr	Glu	Asp		
Ser	Leu 210	Asn	Leu	Ile	Ala	Arg 215	Leu	Pro	Gly	Ile	Ala 220	Ala	Tyr	Ile	Tyr		
Arg 225	Arg	Ile	Tyr	Lys	Asp 230	Gly	Lys	Ile	Ile	Pro 235	Leu	Asp	Asp	Ser	Leu 240		
Asp	Tyr	Gly	Ala	Asn 245	Tyr	Ala	His	Met	Leu 250	Gly	Phe	Asp	Asp	Pro 255	Glu		
Thr	Leu	Glu	Phe 260	Met	Arg	Leu	Tyr	Ile 265	Ser	Ile	His	Ser	Asp 270	His	Glu		
Gly	Gly	Asn 275	Val	Ser	Ser	His	Thr 280	Ala	His	Leu	Val	Ala 285	Ser	Ser	Leu		
Ser	Asp 290	Pro	Tyr	Leu	Ala	Phe 295	Ala	Ala	Ala	Leu	Asn 300	Gly	Leu	Ala	Gly		
Pro 305	Leu	His	Gly	Leu	Ala 310	Asn	Gln	Glu	Val	Leu 315	Arg	Trp	Ile	Arg	Asn 320		
Ile	Val	Lys	Glu	Phe 325	Gly	Thr	Pro	Asn	Ile 330	Ser	Thr	Glu	Gln	Leu 335	Ser		
Asp	Tyr	Ile	His 340	Lys	Thr	Leu	Asn	Ser 345	Gly	Gln	Val	Val	Pro 350	Gly	Tyr		
Gly	His	Gly 355	Val	Leu	Arg	Asn	Thr 360	Asp	Pro	Arg	Tyr	Thr 365	Cys	Gln	Arg		
Glu	Phe 370	Ala	Leu	Lys	His	Leu 375	Pro	Asn	Asp	Pro	Leu 380	Phe	Gln	Leu	Val		
Ser 385	Lys	Ile	Lys	Glu	Val 390	Val	Pro	Pro	Ile	Leu 395	Thr	Lys	Leu	Gly	Lys 400		
Val	Lys	Asn	Pro	Trp 405	Pro	Asn	Val	Asp	Ala 410	His	Ser	Gly	Val	Leu 415	Leu		
Asn	Tyr	Tyr	Gly	Leu	Thr	Glu	Glu	Asn	Tyr	Tyr	Thr	Val	Leu	Phe	Gly		

420

425

430

Val Ala Arg Ser Ile Gly Val Gly Pro Gln Leu Ile Trp Asp Arg Ala
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 450 455 460

Glu Lys Leu Val Gly Ala Ser Ser
 465 470

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 <212> DNA
 <213> Trifolium repens

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 gctccaaact ccaagctcca gtaacactga tctttattct gagatgaagg agctagttcc 240
 agagtatcag gaacgtgtta agaagttgaa gaaagaccat ggaagtgttg aattgggaaa 300
 aatcacagct gatatggtac ttggtggaat gagaggaatg actgctttag tgtggctagg 360
 ctgagctgtt gaccagatg agggaattcg ctttaggggc atgacaattc ctgactgcca 420
 gaaaacactt ccagggtgctt ttcctggtgg ggagcctttg cccgaggcta tactgtggct 480
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 aagtcgtgca aaaatcccag agtatgctta caaggcaatt gatgcactgc ctgtttctgc 600
 tcatccaatg acacaattta gtactggtgt aatggccctc cagggtggaga gtgagtttac 660
 aaaggcatal gagagtggga tacataagtc aagggtattgg gagccaactt atgaggatag 720
 cttgaattta attgctcgtt tgcctggaat tgctgcctat atttatcgac ggatatacaa 780
 ggatggaaaa atcataccat tggatgattc tttggattat ggtgcaaact atgctcacat 840
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 tgatcatgaa ggtggcaacg ttagttctca cacagctcac ctagttgcta gttcactatc 960
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 cataagtaca gaacaattga gcgactacat tcataaaaca ttgaacagtg gccaggttgt 1140
 gcctggatat ggacatggag ttttgcgcaa tacagacca agatacactt gccagagggg 1200
 gtttgcatgt aagcatttgc ctaatgatcc acttttccag ctggtgtcca aaattaaaga 1260
 agtcgtgcct cccattctga ccaagttagg aaagggttaa aatccatggc ctaatgttga 1320
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tgctcatagt ggagtactac taaactacta tggctctaact gaagaaaact attataccgt 1380
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 ccactgctta atcactagtg aattc 1885

<210> 354
 <211> 472
 <212> PRT
 <213> Trifolium repens

<400> 354

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 20 25 30

Pro Ser Ser Ser Asn Thr Asp Leu Tyr Ser Glu Met Lys Glu Leu Val
 35 40 45

Pro Glu Tyr Gln Glu Arg Val Lys Lys Leu Lys Lys Asp His Gly Ser
 50 55 60

Val Glu Leu Gly Lys Ile Thr Ala Asp Met Val Leu Gly Gly Met Arg
 65 70 75 80

Gly Met Thr Ala Leu Val Trp Leu Gly Ser Ala Val Asp Pro Asp Glu
 85 90 95

Gly Ile Arg Phe Arg Gly Met Thr Ile Pro Asp Cys Gln Lys Thr Leu
 100 105 110

Pro Gly Ala Phe Pro Gly Gly Glu Pro Leu Pro Glu Ala Ile Leu Trp
 115 120 125

Leu Leu Leu Thr Gly Lys Val Pro Ser Lys Glu Gln Val Asp Ser Leu
 130 135 140

Ala His Glu Leu Arg Ser Arg Ala Lys Ile Pro Glu Tyr Ala Tyr Lys
145 150 155 160

Ala Ile Asp Ala Leu Pro Val Ser Ala His Pro Met Thr Gln Phe Ser
165 170 175

Thr Gly Val Met Ala Leu Gln Val Glu Ser Glu Phe Thr Lys Ala Tyr
180 185 190

Glu Ser Gly Ile His Lys Ser Arg Tyr Trp Glu Pro Thr Tyr Glu Asp
195 200 205

Ser Leu Asn Leu Ile Ala Arg Leu Pro Gly Ile Ala Ala Tyr Ile Tyr
210 215 220

Arg Arg Ile Tyr Lys Asp Gly Lys Ile Ile Pro Leu Asp Asp Ser Leu
225 230 235 240

Asp Tyr Gly Ala Asn Tyr Ala His Met Leu Gly Phe Asp Asp Pro Glu
245 250 255

Thr Leu Glu Phe Met Arg Leu Tyr Ile Ser Ile His Ser Asp His Glu
260 265 270

Gly Gly Asn Val Ser Ser His Thr Ala His Leu Val Ala Ser Ser Leu
275 280 285

Ser Asp Pro Tyr Leu Ala Phe Ala Ala Ala Leu Asn Gly Leu Ala Gly
290 295 300

Pro Leu His Gly Leu Ala Asn Gln Glu Val Leu Arg Trp Ile Arg Asn
305 310 315 320

Ile Val Thr Glu Phe Gly Thr Pro Asn Ile Ser Thr Glu Gln Leu Ser
325 330 335

Asp Tyr Ile His Lys Thr Leu Asn Ser Gly Gln Val Val Pro Gly Tyr
340 345 350

Gly His Gly Val Leu Arg Asn Thr Asp Pro Arg Tyr Thr Cys Gln Arg
355 360 365

Glu Phe Ala Leu Lys His Leu Pro Asn Asp Pro Leu Phe Gln Leu Val
370 375 380

Ser Lys Ile Lys Glu Val Val Pro Pro Ile Leu Thr Lys Leu Gly Lys
385 390 395 400

Val Lys Asn Pro Trp Pro Asn Val Asp Ala His Ser Gly Val Leu Leu
405 410 415

Asn Tyr Tyr Gly Leu Thr Glu Glu Asn Tyr Tyr Thr Val Leu Phe Gly
420 425 430

Val Ala Arg Ser Ile Gly Val Gly Pro Gln Leu Ile Trp Asp Arg Ala
435 440 445

Leu Gly Met Pro Leu Glu Arg Pro Lys Ser Val Thr Leu Glu Lys Leu
450 455 460

Glu Lys Leu Val Gly Ala Ser Ser
465 470

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<220>
<223> Primer sequence

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ttgcccagg ctatactgtg gc 22

<210> 356
<211> 19
<212> DNA
<213> Artificial

<220>
<223> Primer sequence

<400> 356
cagctcacct agttgctag 19

<210> 357
<211> 20
<212> DNA
<213> Artificial

<220>
<223> Primer sequence

<400> 357
ccatggccta atgttgatgc 20

<210> 358
<211> 22
<212> DNA
<213> Artificial

<220>
<223> Primer sequence

<400> 358 ttggcctttc aagtggcatt cc	22
<210> 359 <211> 21 <212> DNA <213> Artificial	
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<210> 360 <211> 20 <212> DNA <213> Artificial	
<220> <223> Primer sequence	
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<210> 361 <211> 23 <212> DNA <213> Artificial	
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<400> 361 gactgccaga aaacacttcc agg	23
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<400> 362 atgactgctt tagtgtgg	18
<210> 363 <211> 23 <212> DNA <213> Artificial	
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<400> 363 ctcaagtttc tccagtgtga cac	23

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	gcactgcctg tttctgctca tcc	23
<210>	367	
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	ctccaatact cctcgcgacg cc	22
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 <220>
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 <400> 369
 aggcacaacc tggccactg 19

<210> 370
 <211> 20
 <212> DNA
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 <220>
 <223> Primer sequence
 <400> 370
 acgttgccac cttcatgatc 20

<210> 371
 <211> 21
 <212> DNA
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 <220>
 <223> Primer sequence
 <400> 371
 gttgttatac ctgctggtgt t 21

<210> 372
 <211> 20
 <212> DNA
 <213> Artificial
 <220>
 <223> Primer sequence
 <400> 372
 ctcaactcaac ccttgagat 20

<210> 373
 <211> 24
 <212> DNA
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 <220>
 <223> Primer sequence
 <400> 373
 tcctaagaaa cttgaagagc tcgg 24

<210> 374
 <211> 18
 <212> DNA
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 <220>
 <223> Primer sequence

<400> 374
agatgtttgc ttactagc 18

<210> 375
<211> 23
<212> DNA
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<220>
<223> Primer sequence

<400> 375
gccagcagca atacccttca tgg 23

<210> 376
<211> 18
<212> DNA
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<220>
<223> Primer sequence

<400> 376
ttgcttctca actgttcc 18

<210> 377
<211> 51
<212> DNA
<213> Artificial

<220>
<223> Primer sequence

<400> 377
ggggacaagt ttgtacaaaa aagcaggctt gatcttaatg gcgttctttc g 51

<210> 378
<211> 50
<212> DNA
<213> Artificial

<220>
<223> Primer sequence

<400> 378
ggggaccact ttgtacaaga aagctgggtt ttcaatttta ggacgatgcg 50

<210> 379
<211> 50
<212> DNA
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<220>
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<400> 379
ggggacaagt ttgtacaaaa aagcaggctt tgttgattga tcttaatggc 50

<210> 380
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 <212> DNA
 <213> Artificial

 <220>
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 <210> 381
 <211> 55
 <212> DNA
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 <220>
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 <400> 381
 ggggacaagt ttgtacaaaa aagcaggctc tagattgttg attgatctaa atggc 55

 <210> 382
 <211> 56
 <212> DNA
 <213> Artificial

 <220>
 <223> Primer sequence

 <400> 382
 ggggaccact ttgtacaaga aagctgggtc tagattcaat tttaggatga tgcacc 56

 <210> 383
 <211> 56
 <212> DNA
 <213> Artificial

 <220>
 <223> Primer sequence

 <400> 383
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 <210> 384
 <211> 57
 <212> DNA
 <213> Artificial

 <220>
 <223> Primer sequence

 <400> 384
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 <210> 385
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 <212> DNA

<213> Artificial
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 <223> Primer sequence
 <400> 385
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 <210> 386
 <211> 53
 <212> DNA
 <213> Artificial
 <220>
 <223> Primer sequence
 <400> 386
 ggggaccact ttgtacaaga aagctgggta tgatatctta gcacacactt aac 53
 <210> 387
 <211> 36
 <212> DNA
 <213> Artificial
 <220>
 <223> Primer sequence
 <400> 387
 ataataaccg gttgatcatg agcggagaat taaggg 36
 <210> 388
 <211> 36
 <212> DNA
 <213> Artificial
 <220>
 <223> Primer sequence
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